

Preface

Thank you for purchasing AC600 series AC drive designed and manufactured by VEICHI. For optimal product performance, please read this manual carefully before using the product (installation, wiring, operation, maintenance, inspection, etc.).

The AC600 series high-performance vector AC drive is designed for controlling and regulating the speed and torque of three-phase AC synchronous and asynchronous motors.

Featuring high-performance vector control technology, the AC600 series offers superior motor drive performance. It includes user-programmable functions, background software monitoring, communication bus capabilities, and supports multiple encoder types. With capacity for up to 4 extension cards, it offers a versatile and powerful combination of functions with stable performance. Optional accessories are available to achieve IP54 protection. The AC600 series drive is suitable for driving equipment across various industries, including oil and gas, metallurgy, textiles, papermaking, wire drawing, machine tools, packaging, food processing, fans, pumps, and other automated production systems.

This manual primarily covers safety precautions, technical data, installation, keypad layout and operation instructions, parameter and function code descriptions, and routine maintenance for the AC600 series drive. VEICHI reserves the right to continuously improve the product and update the manual accordingly, on which, VEICHI also has the final interpretation right.

If there are doubts about functions and performance, please consult VEICHI support staff.

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1 General

1.1 Safety Precautions

Please use this product only after the safety precautions described in this manual are fully understood to protect both persons and the products.

Signs and Meanings

The following signs are used in this manual to highlight the key safety points. Failure to observe these points may result in damages to this product and the associated system, or even personal injuries.

 DANGER	DANGER: Incorrect operation will result in death or major safety incidents.
 WARNING	WARNING: Incorrect operation may result in death or major safety incidents.
 CAUTION	CAUTION: Incorrect operation may result in minor injuries.
NOTE	NOTE: Incorrect operation may result in damage to the product and the associated system.

General Cautions

- In order to introduce the details of the product, the illustrations in this manual sometimes show the product with the outer cover or safety cover removed. When using this product, please be sure to install the outer cover or safety cover as required, and operate according to the regulations in this manual.
- The figures in this manual are only representative examples, and may be different from the products you ordered.
- Due to product improvements or specification changes, as well as to improve the convenience of the manual itself, this manual may be changed without notice.
- To order a replacement for a damaged or lost manual, contact our agency or the nearest sales office listed on the back cover, and provide the reference number on the front cover.

DANGER

Please pay attention to all information in this manual regarding safety. Failure to observe them may result in death or serious injuries. VEICHI will not be held liable for injuries and equipment damage caused by your company or your customers' failure to comply with the contents of this manual.

To prevent electric shock

Do not perform inspection or wiring while the power is on. Before starting work, be sure to switch off the power of all machines. After the power is switch off, there is still residual voltage in the capacitor inside the drive. To prevent electric shock, wait the time indicated on the unit's front panel warning label. Once all indicator lights are off, remove the front and terminal covers, then measure the input power supply voltage and main circuit DC voltage to ensure they are at a safe level.

WARNING**For mechanical safety**

- After the wiring work and parameter setting are completed, be sure to perform a test run to make sure that the AC drive can operate safely; otherwise, it may cause personal injury or equipment damage.
- Be sure to verify the set points of parameters for the virtual input/output function before the test run of AC drive.
- The virtual input/output function is based on the virtual wiring of the input/output terminals inside the AC drive. Therefore, even if there is no physical wiring on the input/output terminals, the operation may be different from the factory settings. If lack of verification, unexpected actions may cause personal accidents.
- Before turning on the power supply, please make sure that there are no people around drive, motor and machines. In addition, please make sure that the cover, coupling, shaft key and machinery of the drive have been effectively protected.
- In some systems, the machines may suddenly move when the main circuit is energized, which may cause death or serious injury.
- When it is external terminal control, the function of the input/output terminals of the AC drive will be different from the factory setting, so the action may be different from the description in the manual. Before the test run, please use external terminal control to confirm the input/output signals of the AC drive and the internal sequence control.

To prevent electric shock

It is strictly forbidden to modify the AC drive.

- We will not take any responsibility for the modification of the product by your company or your customers.
- Non-electrical professionals are not allowed to perform wiring, installation, maintenance, inspection, component replacement or repair operations.
- Do not remove the outer cover of the product or touch the printed circuit board when the power is on.

To prevent fire

- Ensure to use the correct voltage of the main circuit power supply. Before energizing, please confirm whether the rated voltage of the AC drive is consistent with the power supply voltage.
- Please follow local standards to set up bypass protection circuits. Improper wiring may cause fire or personal accidents.

CAUTION**To prevent injury**

- Do not move the AC drive by holding the front cover or terminal cover. In addition, please make sure that the screws are properly tightened before moving.
- If you move the AC drive by holding the front cover or terminal cover, it may fall due to loose screws, which may cause injury.

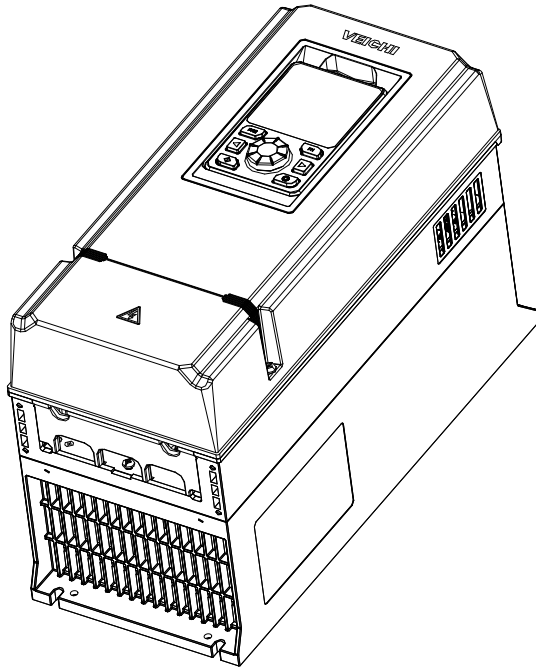
NOTE

- Use a motor that meets the insulation requirements of the PWM AC drive to prevent short circuits or ground short circuits due to deterioration of the insulation.
- When operating the AC drive or disassembling the printed circuit board, follow the procedures specified in the electro-static discharge (ESD). Wrong operation may damage the circuits inside the AC drive due to static electricity.
- Voltage withstand tests cannot be performed on any part of the AC drive, as it contains precision instruments that may be damaged by high voltage.
- Do not connect or operate the machine if it is visibly damaged or has missing parts, as this may aggravate damage to the machine and other problems may occur.
- When the fuse is blown or the leakage circuit breaker trips, please do not immediately turn on the power supply or operate the machine. Please check whether the cable wiring and the selection of peripheral machines are correct and find out the cause of the problem. Please contact our company, and do not switch on the power supply or operate the machine without authorization if the causes can't be identified.
- When the packaging are wood materials need to be disinfected and disinfected, methods other than fumigation must be used, such as heat treatment (over 30 minutes with the core temperature of 56°C). In addition, please process the package materials before packaging, rather than processing the whole product after packaging.
- When fumigated wood materials are used to package electrical products (stand-alone or mechanical products), the gases and vapors produced by the packaging materials may cause fatal damage to electronic products. In particular, halogen disinfectants (fluorine, chlorine, bromine, iodine, etc.) may cause internal corrosion of capacitors, and DOP gas (phthalate ester) may cause cracks in resins, etc.

1.2 Pre-use

Please check the outer packaging for any damage upon receiving the ordered products. And then check the product inside for any damage, scratches, or dirt. (Please note that damage during transportation is not covered by the Three Guarantees warranty policy.) If the product is damaged during shipping, please contact us or the shipping company immediately. If everything is fine, please double-check that the model number of the received drive is the same as the order sheet.

Model and nameplate:



VEICHI

MODEL : AC600-T4-011G/015P-BL-E3

INPUT : 3PH AC380V~480V 50/60Hz

OUTPUT 1 : 11kW 25A 0~600Hz

OUTPUT 2 : 15kW 32A 0~600Hz

SN



9111420002OC12345678

IP20



危险
DANGER



警告
WARNING



注意
CAUTION

请务必按照使用说明书的指示操作。
Must read the instruction manual before operation.
本产品没有内置电机过热保护回路。
This product has no built-in motor overheat protection circuit.
断电10分钟内，请勿触摸电源端子部位，有触电危险。
Risk of electric shock. Don't touch power terminals for 10 minutes after turning OFF.
为了防止触电，必须连接好地线。
Never fail to connect protective Earth(⓪) terminal.
请勿触摸散热器，有烫伤的危险。
Do not touch the heatsink, there is a risk of scalding.

苏州伟创电气科技股份有限公司
Suzhou Veichi Electric Co., Ltd.

MADE IN CHINA

AC600-T4-011G/015P-BL IV-XX

① ② ③ ④ ⑤

Table 1-1 Nameplate and Naming Rules of AC600 Series Drive

No.	Name	Description
①	Product series	AC600 series drive
②	Voltage level	T: Three-phase power; S: Single-phase power; 4: AC380V-AC480V power; 2: AC220V power; 6: AC660V power
③	Torque load	G: Constant torque load, P: Variable torque load 011: 11kW, 015: 15kW, 1R5: 1.5kW
④	Configuration	B: Indicates built-in brake unit; blank indicates no built-in brake unit. L: Indicates built-in DC reactor. I: Indicates STO card configuration; blank indicates not configured. V: Indicates that the product configuration meets the IP54 protection level, and the default is IP20.
⑤	EMC configuration	E3: Indicates the product meets EMC C3 standard. E2: Indicates the product meets EMC C2 standard.

1.3 Technical Specifications

● Three-phase 380V voltage

Table 1-2 (380V) (V1~V4)

Dimension			V1					V2		V3			V4	
Power(kW)			0.75	1.5	2.2	4	5.5	7.5	11	15	18.5	22	30	37
Output	Applicable motor capacity (kW)	G-type	0.75	1.5	2.2	4	5.5	7.5	11	15	18.5	22	30	37
		P-type	1.5	2.2	4	5.5	7.5	11	15	18.5	22	30	37	45
	Rated output current (A)	G-type	3	4	6	10	13	17	25	32	38	45	60	75
		P-type	4	6	10	13	17	25	32	38	45	60	75	90
	Voltage		3-phase 0V~input voltage											
	Frequency		0Hz~599Hz											
	Carrier frequency		1.0kHz~16.0kHz (automatically adjustable based on load characteristics)											
	Overload capacity		G-type: 150% rated current for 90s; 180% rated current for 10s; 200% rated current for 3s P-type: 120% rated current for 35s; 140% rated current for 7s; 150% rated current for 3s											
Input	Rated input current (A)	G-type	2.3	3.1	4.8	8.6	10.7	14.5	21.9	28	33.1	39.4	53.5	67.6
		P-type	3.1	4.8	8.6	10.7	14.5	21.9	28	33.1	39.4	53.5	67.6	83.3
	Power capacity (kVA)	G-type	3.1	4.5	6.8	11.6	15	20	29	38	46.5	54	69	86
		P-type	4.5	6.8	11.6	15	20	29	38	46.5	54	69	86	90
	Rated voltage/frequency		Three-phase AC power: 380V~480V, 50Hz/60Hz											
	Allowable voltage fluctuation		-15%~+10%, with a range of AC323V~AC528V											
	Allowable frequency fluctuation		±5%, with a range of 47.5Hz to 63Hz											

Table 1-3 (380V) (V5~V9)

Dimension			V5			V6		V7		V8			V9	
Power(kW)			45	55	75	90	110	132	160	185	200	220	250	280
Output	Applicable motor capacity (kW)	G-type	45	55	75	90	110	132	160	185	200	220	250	280
		P-type	55	75	90	110	132	160	185	200	220	250	280	315
	Rated output current	G-type	90	110	150	180	210	250	310	340	380	415	470	510
		P-type	110	150	180	210	250	310	340	380	415	470	510	600
	Output voltage		3-phase 0V~input voltage											
	Output frequency		0Hz~599Hz											
	Carrier frequency		1.0kHz~16kHz (automatically adjustable based on load characteristics)											
	Overload capacity		G-type: 150% rated current for 90s; 180% rated current for 10s; 200% rated current for 3s P-type: 120% rated current for 35s; 140% rated current for 7s; 150% rated current for 3s											
Input	Rated input current (A)	G-type	83.3	104	139	167.7	196	237	293	323	368	400	446	486
		P-type	104	139	167.7	196	237	293	323	368	400	446	486	580
	Power capacity (kVA)	G-type	90	95	127	154	179	217	268	295	336	365	408	444
		P-type	95	127	154	179	217	268	295	336	365	408	444	530
	Rated voltage/frequency		Three-phase AC power: 380V~480V, 50Hz/60Hz											
	Allowable fluctuation		-15%~+10%, with a range of AC323V~AC528V											
	Allowable frequency fluctuation		±5%, with a range of 47.5Hz to 63Hz											

Table 1-4 (380V) (V10~V11)

Dimension			V10			V11		
Power (kW)			315	355	400	450	500	560
Output	Applicable motor capacity (kW)	G-type	315	355	400	450	500	560
		P-type	355	400	450	500	560	630
	Rated output current (A)	G-type	600	670	750	800	860	990
		P-type	670	750	800	860	990	1100
	Output voltage		3-phase 0V~input voltage					
	Output frequency		0Hz~599Hz					
	Carrier frequency		1.0kHz~16kHz (automatically adjustable based on load characteristics)					
	Overload capacity		G-type: 150% rated current for 90s; 180% rated current for 10s; 200% rated current for 3s P-type: 120% rated current for 35s; 140% rated current for 7s; 150% rated current for 3s					
Input	Rated input current (A)	G-type	580	636	710	763	801	925
		P-type	636	710	763	801	925	1025
	Power capacity (kVA)	G-type	530	582	650	698	733	846
		P-type	582	650	698	733	846	914
	Rated voltage/frequency		Three-phase AC power: 380V~480V, 50Hz/60Hz					
	Power grid		TN/TT, corner grounding					
	Allowable fluctuation		-15%~+10%, with a range of AC323V~AC528V					
	Allowable frequency fluctuation		±5%, with a range of 47.5Hz to 63Hz					

● General specification

Table 1-5 General Technical Specification

Item		Specification
Main Control Performance	Motor type	Three-phase asynchronous motors, permanent magnet synchronous motors, and synchronous reluctance motors
	Control mode	V/F control, SVC, FVC, and voltage-frequency conversion control
	Modulation	PWM
	Speed control range	● SVC: Rated load 1:200 ● FVC: Rated load 1:1000
	Speed stabilizing accuracy	● SVC: ± 0.5% (three-phase AM), ±0.1% (PM) ● FVC: ±0.02%
	Starting torque	● SVC: 150% rated torque at 0.25Hz ● FVC: 200% rated torque at 0Hz
	Torque response	SVC: <10ms; FVC: <5ms
	Torque accuracy	SVC: ±5%; FVC: ±2.5%
	Frequency accuracy	Digit setting: Max. frequency ×(±0.01%); analog setting: Max. frequency ×(±0.2%)
	Frequency	Digit setting: 0.01Hz; analog setting: Max. frequency × 0.05 %
	Input current	Max. THDI < 48% at 100% load, compliant with IEC 61000-3-12
Basic Function	Torque control	Torque calculation and speed limit in torque mode
	DC brake	Starting frequency: 0.00Hz~50.00Hz; braking time: 0.0s~60.0s; braking current: 0.0%~150.0% of rated current of the motor
	Torque boost	Automatic torque boost; manual torque boost: 0.1%~30.0%.

	V/F curve	4 patterns: Linear torque characteristic curve, self-defined V/F curve, torque drop characteristic curve (1.1~1.9 power), and square V/F curve
	ACC/DEC curve	2 patterns: Linear and S-curve acceleration/deceleration Four sets of acceleration and deceleration times, the default time unit is 0.01s, and the corresponding maximum time can be set to 650.00s. If the debugging time unit is 0.1s or 1s, the maximum time that can be set is 6500.0s or 65000s.
	Rated output voltage	With the power voltage compensation function, it can be set within 50%~100% with the rated voltage of the motor as 100% (the output cannot exceed the input voltage)
	Auto voltage	The output voltage can be automatically kept constant during the grid voltage fluctuation
	Auto ECO mode	Output voltage is automatically optimized according to the load under V/F control mode to
	Auto current limit	Auto current limit works during operation to prevent frequent tripping due to over-current
	Instantaneous	Uninterrupted operation is realized through bus voltage control in case of instantaneous
	Standard	PID control, speed tracking and restart after power down, jump frequency, upper/lower frequency limit control, programmed operation, multi-frequency, RS485, analog output, frequency pulse output, parameter access level setting, common parameter setting,
	Frequency source	Digital setting via the keypad, keypad potentiometer, analog voltage/current terminal AI1 and AI2, communication, terminal combination, and frequency source combination
	Feedback input	Set via AI1 and AI2, communication, and PUL terminal
	Command source	Set via operation panel, external terminals and communication
	Input command signal	Start, stop, forward and reverse, jog, multi-frequency, free stop, reset, acceleration/deceleration time, frequency source, and external fault alarms.
	External output signal	2 × relay output, 1 × open collector output, and 1 × analog output can be selected to 0V~10V, 0mA~20mA or 4mA~20mA, or frequency pulse output
	External power	DC24V ±15%, max. current 1200mA
	Extension card	Supports CARD-A, CARD-B, CARD-C, and STO cards
	Fan speed control/fault	Supports fan speed control and fan fault detection functions
	STO	Products with STO: comply with STO (Safe Torque Off) SIL 3
	DC reactor	Standard
Protection		Over-voltage, under-voltage, current limit, over-current, overload, overheat, over-voltage stall, data, over-speed, and I/O phase loss protections
Keypad	Keypad display	Segment screen or LCD display
	Parameter copy	The function code information of the AC drive can be uploaded and downloaded to realize
	Status monitoring	All parameters of the monitoring parameter group, including output frequency, given frequency, output current, input voltage, output voltage, motor speed, PID feedback, PID
	Fault warning	OV, UV, OC, SC, phase loss, OL, OT, OV stall, current limit, data damaged, operating conditions of current faults, and fault history
Environment	Installation	<1000 meters, derate 1% for every 100 meters rise when above 1000m. The max. altitude is 4800m.

	Operating temperature	-10°C~+40°C, derating is required between 40°C~+50°C IP20: 40°C~50°C, derate 1.5% for every 1°C rise IP54: 40°C~50°C, derate 2.5% for every 1°C rise
	Humidity	5%RH~95%RH, no condensation
	Vibration	5.9m/s ² (0.6g) at 9Hz~200Hz
	Storage temperature	-30°C~+60°C, with air temperature change <1°C/min
	Installation method	Wall-mounted, cabinet
	IP	IP20 or IP54 (with specified accessories)
	Pollution degree	PD2
	Overvoltage	OVC III
	Protection type	Class I
	Cooling	Forced air-cooling

1.4 CE Standard

The table below lists the relevant certification directives and standards. Certification status is indicated on the product nameplate.

Certificate	Directives		Standard
CE	EMC	2014/30/EU	EN IEC 61800-3
	LVD	2014/35/EU	EN 61800-5-1
	RoHS	2011/65/EU	EN 50581
UL/CUL	-		UL61800-5-1
			C22.2 No.274-17

2 Installation

2.1 Safety Precautions

This section explains the various precautions that must be followed to ensure safe use, maximized performance, and reliable operation of the AC drive.

Cautions on use of AC drive

 WARNING	When installing the AC drive in a closed cabinet, please configure a cooling fan or cooling air conditioner for full cooling. Make sure that the air inlet temperature of the drive is below 40°C to ensure safe and reliable operation.
 CAUTION	● During installation, please cover the upper part of the AC drive with cloth or paper to prevent metal chips, oil, water and other debris from falling inside during installation and drilling operations. Please remove such cover carefully after installation. ● Please follow the measures and methods specified in ESD prevention measures during operation on the AC drive, otherwise it may be damaged. ● If multiple AC drives are installed in a cabinet, be sure to reserve sufficient space on the upper part to facilitate the replacement of the cooling fan. ● Do not use the AC drive beyond the rated range, otherwise it may be damaged. ● When moving the AC drive, please hold on the fixed case. If only the front cover is held, the main body may fall, which may cause personal injury or damage to the product.

Cautions on use of motor

 CAUTION	● The max. allowable speed varies with motor models. Please do not exceed the max. allowable speed of the motor. ● At low speeds, the AC drive's motor self-cooling effect is significantly reduced, risking overheating damage. For extended low-speed operation, please use a motor special for frequency conversion. ● When a machine running at a constant speed is operated at a variable speed, resonance may occur. Please install anti-vibration rubber under the motor bracket or use the hopping frequency control function to avoid it. ● The torque characteristics of the motor driven by variable frequency and the industrial frequency are different. Please confirm the torque characteristics of the mechanical equipment to be connected. ● The rated current of the submersible motor is greater than that of the standard motor. Please confirm the rated current of the motor and select an appropriate AC drive. ● When the distance between the motor and the AC drive is large, the maximum torque of the motor will be reduced due to the voltage drop. Therefore, please use a cable thick enough for connecting over a long distance.
--	--

Cautions on grounding

 WARNING	Ignoring these precautions may result in personal injury and death, increased electromagnetic interference, and equipment damage. ● Always ground the drive, motor, and connected equipment to ensure safety and reduce electromagnetic emissions and interference. ● Ensure the grounding conductor size meets local safety standards. ● Ground (PE) each drive separately when installing multiple units. ● To suppress electromagnetic interference, EMC radiation must be minimized. Therefore, cables entering and exiting the cabinet need 360° high-frequency grounding. Additionally, connect cable shields to the ground (PE) for safety compliance. ● Disconnect the VAR EMC grounding screw in floating ground or high-impedance grounding systems (over 30 ohms).
 NOTE	● Ensure the product's leakage current exceeds 3.5mA. If the protective ground is disconnected, a dangerous contact current may occur when touching this product. ● Ensure grounding resistance is less than or equal to 1ohm. ● When grounding multiple drives, directly ground each one; do not form loops or series connections with grounding wires. ● Follow EN 61800-5-1 requirements: Use a protective grounding conductor with a minimum cross-section of 10mm² copper or 16mm² aluminum; or Automatically disconnect power if the protective grounding conductor is broken; or Use a second protective grounding conductor (minimum cross-section of 10mm² copper or 16mm² aluminum).

Chemical and mechanical conditions

Withstand harsh environments, compliant with IEC/EN 60721-3-3 requirements.

AC Drive	Chemical Active Substances	Mechanical Active Substances	Mechanical Conditions
Chassis sizes V1~V11	3C2	3S2	3M3

2.2 Environment

In order to improve the reliability of this product, please use it in a place where the temperature will not change sharply; when using it in a closed space such as a control cabinet, please use a cooling fan or cooling air conditioner for cooling to prevent the internal temperature from exceeding the allowable temperature; please avoid freezing the product, since too low temperature may cause failure to some devices.

- After exceeding the allowable ambient temperature, the AC drive shall be derated as shown in the following figure.

Model	Derating
IP20	1.5% current derating per 1°C increase between 40°C and 50°C
IP54	2.5% current derating per 1°C increase between 40°C and 50°C

IP20: In the temperature range of 40°C to 50°C, the rated output current must be derated by 1.5% for each 1°C increase. The output current can be calculated by multiplying the rated value by the derating factor (k):

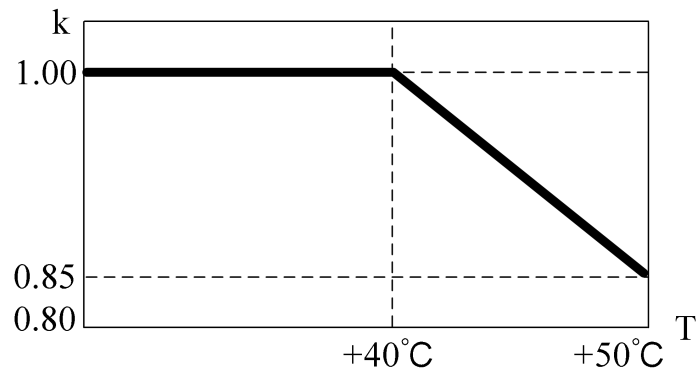


Figure 2-1 IP20 Temperature Derating Curve

IP54: In the temperature range of 40°C to 50°C, the rated output current must be derated by 2.5% for each 1°C increase. The output current can be calculated by multiplying the rated value by the derating factor (k):

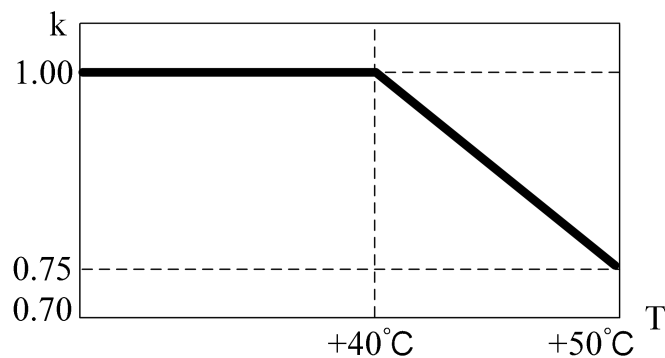
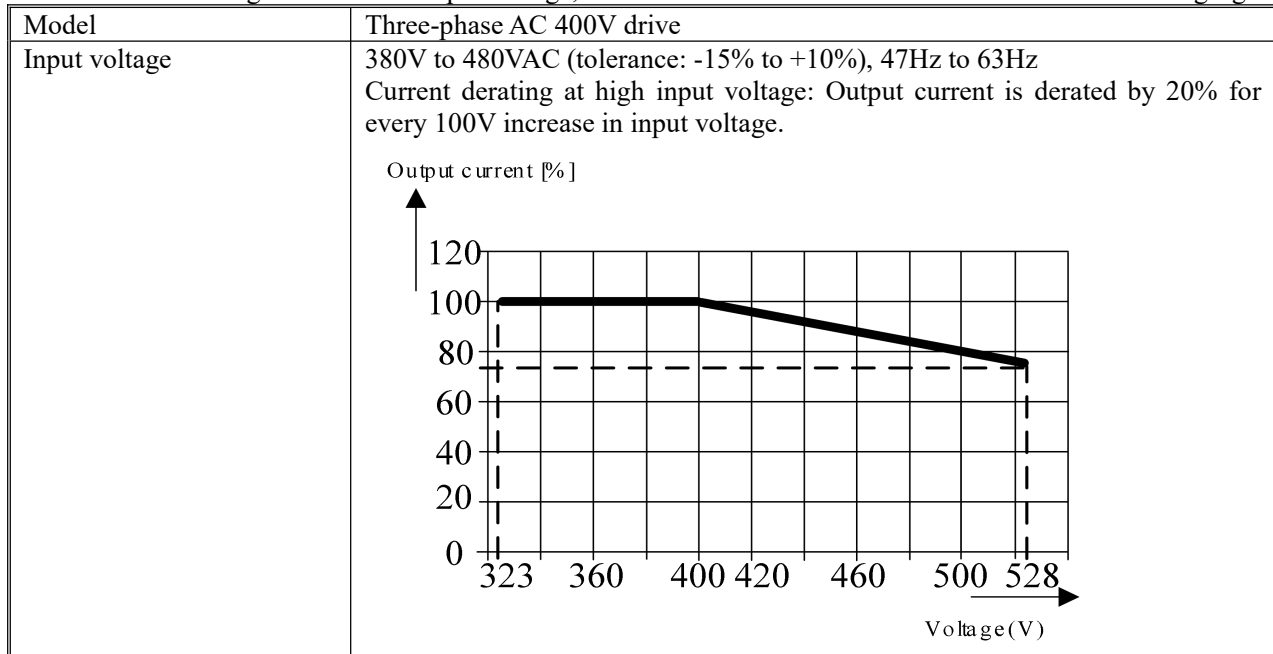


Figure 2-2 IP54 Temperature Derating Curve

● After exceeding the allowable altitude, the AC drive shall be derated as shown in the following figure.

Altitude	Grid				Derating
	Power Voltage	TT/TN	IT	Corner Ground	
<1000m	200V~240V	yes	yes	yes	None
	380V~480V	yes	yes	yes	
1000m~2000m	200V~240V	yes	yes	yes	The drive's rated current must be derated by 1% for each 100m increase.
	380V~480V	yes	yes	yes	
2000m~3000m	200V~240V	yes	yes	yes	The drive's rated current must be derated by 1% for each 100m increase.
	380V~480V	yes	yes	no	
3000m~3800m	200V~240V	yes	yes	yes	The drive's rated current must be derated by 1% for each 100m increase.
	380V~480V	yes	yes	no	
3800m~4800m	200V~240V	yes	yes	yes	The drive's rated current must be derated by 1% for each 100m increase.
	380V~480V	yes	no	no	

- After exceeding the allowable input voltage, the AC drive shall be derated as shown in the following figure.



2.3 Installation Direction and Space

- Direction
Be sure to install the AC drive vertically to avoid reducing the cooling effect.
- Space
To ensure the ventilation space and wiring space required for cooling, please install the AC drive with its back closely attached to the wall to make the cooling air around the cooling fan flow smoothly.

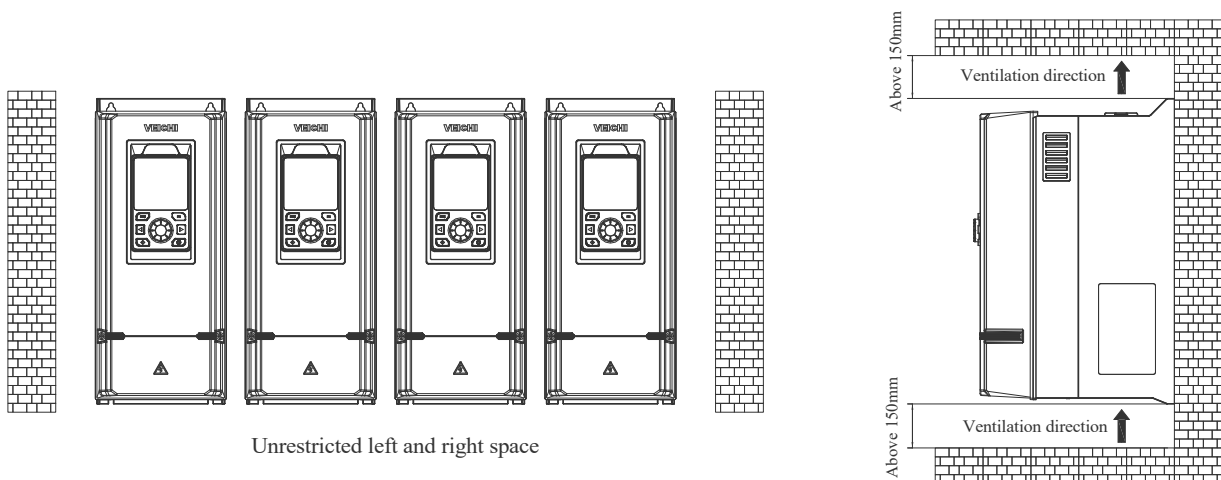


Figure 2-3 AC Drive Installation Space

2.4 Overall Dimensions

IP20 Overall Dimensions

- Overall dimensions of the AC drive V1~V3 (plastic)

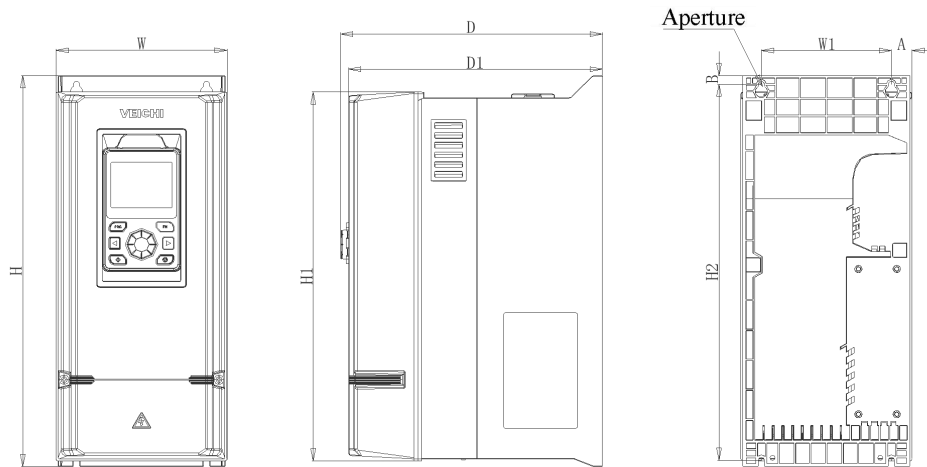


Figure 2-4 V1~V3 Overall Dimensions and Hole Size

Table 2-1 V1~V3 Overall Dimensions and Hole Size

Type	Model	Outer Dimension (mm)					Hole Size (mm)				Net Weight (kg)	Aperture (mm)
		W	H	H1	D	D1	W1	H2	A	B		
V1	AC600-T4-R75G/1R5P-*	138	320	302.2	211.5	205	105	308	16.5	7	5.6	4-M4
	AC600-T4-1R5G/2R2P-*											
	AC600-T4-2R2G/004P-*											
	AC600-T4-004G/5R5P-*											
	AC600-T4-5R5G/7R5P-*											
V2	AC600-T4-7R5G/011P-*	155	348	328.2	211.5	205	115	336	20	7	5.8	4-M5
	AC600-T4-011G/015P-*											
	AC600-T4-015G/018P-*											
V3	AC600-T4-018G/022P-*	190	455	435.2	236.5	230	155	443.5	17.5	6.5	10.4	4-M6
	AC600-T4-022G/030P-*											
	AC600-T4-030G/030P-*											

- Overall dimensions of the AC drive V4~V5 (steel)

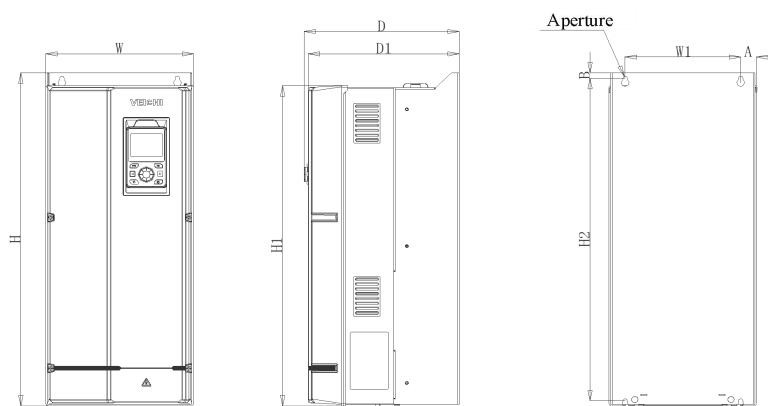


Figure 2-5 V4~V5 Overall Dimensions and Hole Size

Table 2-2 V4~V5 Overall Dimensions and Hole Size

Type	Model	Outer Dimension (mm)					Hole Size (mm)				Net Weight (kg)	Aperture (mm)
		W	H	H1	D	D1	W1	H2	A	B		
V4	AC600-T4-030G/037P-*	230	552.5	531.5	241.5	235	180	535	25	9	19.8	4-M6
	AC600-T4-037G/045P-*											
V5	AC600-T4-045G/055P-*	265	627.5	606.3	280.5	274.5	190	609.5	37.5	9	29.8	4-M8
	AC600-T4-055G/075P-*											
	AC600-T4-075G/090P-*											

● Overall dimensions of the AC drive V6~V11 (steel)

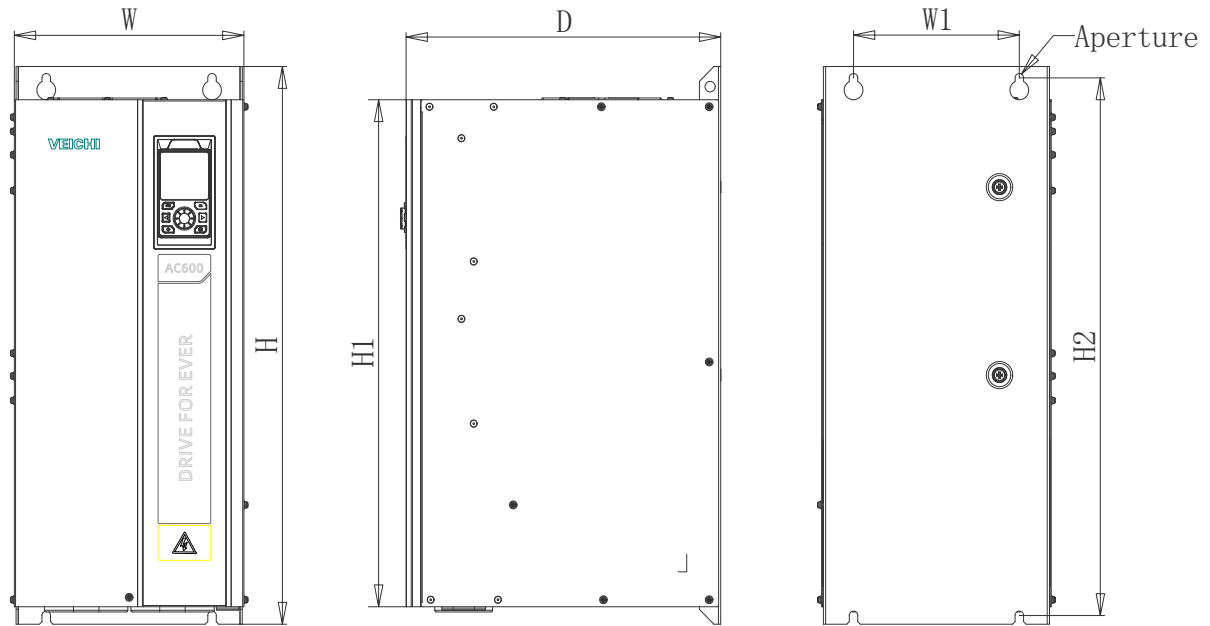


Figure 2-6 V6~V11 Overall Dimensions and Hole Size

Table 2-3 V6~V11 Overall Dimensions and Hole Size

Type	Model	Outer Dimension (mm)			Hole Size (mm)			Net Weight (kg)	Aperture (mm)
		W	H	H1	D	W1	H2		
V6	AC600-T4-090G/110P-*	270	658	600	370	195	635	35	4-M8
	AC600-T4-110G/132P-*								
V7	AC600-T4-132G/160P-*	350	738	680	410	220	715	66.5	4-M8
	AC600-T4-160G/185P-*								
V8	AC600-T4-200G/220P-*	360	940	850	486	200	910	97	4-M16
	AC600-T4-220G/250P-*								
V9	AC600-T4-250G/280P-*	370	1140	1050	550	200	1110	126.5	4-M16
	AC600-T4-280G/315P-*								
V10	AC600-T4-315G/355P-*	400	1250	1140	568	240	1213	167	4-M16
	AC600-T4-355G/400P-*								
	AC600-T4-400G/450P-*								
	AC600-T4-450G/500P-*								
V11	AC600-T4-500G/560P-*	460	1400	1293	545	300	1363	235	4-M16
	AC600-T4-560G/630P-*								

IP54 Overall Dimensions

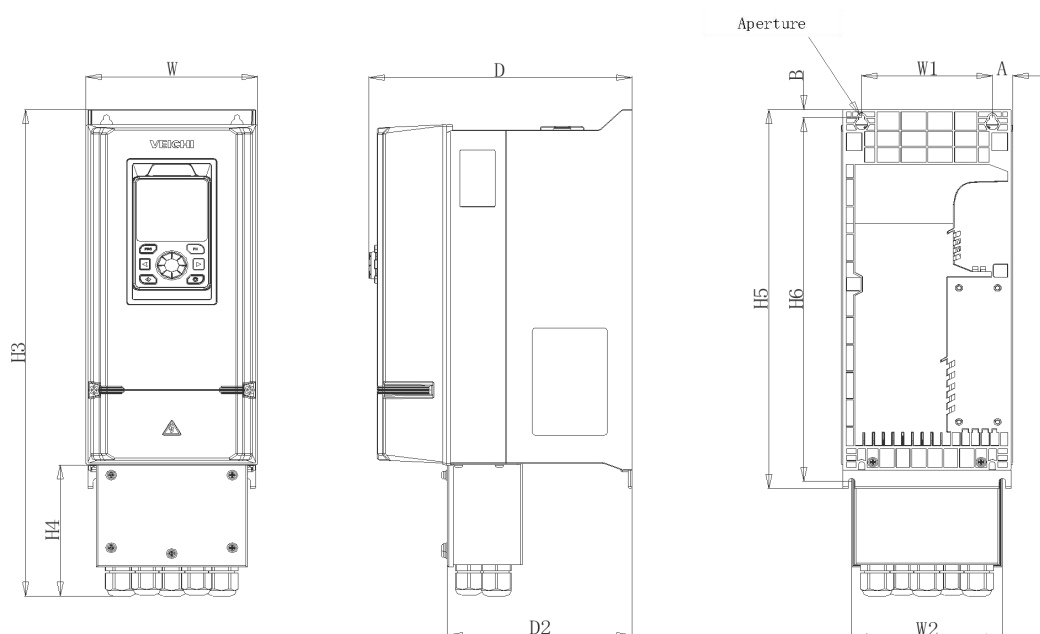


Figure 2-7 V1~V3 Junction Box Overall Dimensions and Hole Size

Table 2-4 V1~V3 Junction Box Overall Dimensions and Hole Size

Type	Model	Outer Dimension (mm)						Hole Size (mm)					Aperture (mm)
		W	H3	H4	H5	D	D2	W1	W2	H6	A	B	
V1	AC600-T4-R75G/1R5P.*V*	138	432	116.5	336.5	211.5	148.5	105	121	323	16.5	7	4-M4
	AC600-T4-1R5G/2R2P.*V*												
	AC600-T4-2R2G/004P.*V*												
	AC600-T4-004G/5R5P.*V*												
V2	AC600-T4-5R5G/7R5P.*V*	155	467	123.5	364.5	211.5	148.5	115	138	351	20	7	4-M5
	AC600-T4-7R5G/011P.*V*												
V3	AC600-T4-011G/015P.*V*	190	579	138.6	471.5	236.5	174.7	155	172	443.5	17.5	6.5	4-M6
	AC600-T4-015G/018P.*V*												
	AC600-T4-018G/022P.*V*												
	AC600-T4-022G/030P.*V*												

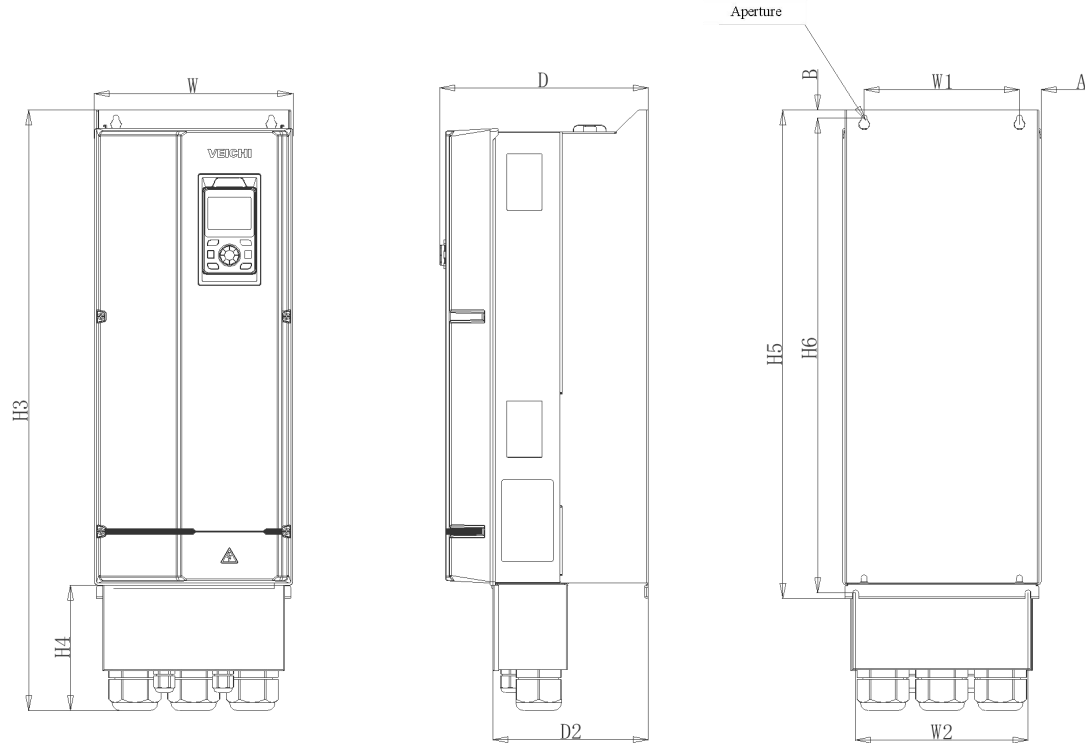


Figure 2-8 V4~V5 Junction Box Overall Dimensions and Hole Size

Table 2-5 V4~V5 Junction Box Overall Dimensions and Hole Size

Type	Model	Outer Dimension (mm)						Hole Size (mm)					Aperture (mm)
		W	H3	H4	H5	D	D2	W1	W2	H6	A	B	
V4	AC600-T4-030G/037P.*V*	230	698	145.5	568	241.5	180	180	200	552	25	9	4-M6
	AC600-T4-037G/045P.*V*												
V5	AC600-T4-045G/055P.*V*	265	779	147.5	649	280.5	229	190	236	633	17.5	9.5	4-M8
	AC600-T4-055G/075P.*V*												
	AC600-T4-075G/090P.*V*												

Wall-through drive installation dimensions

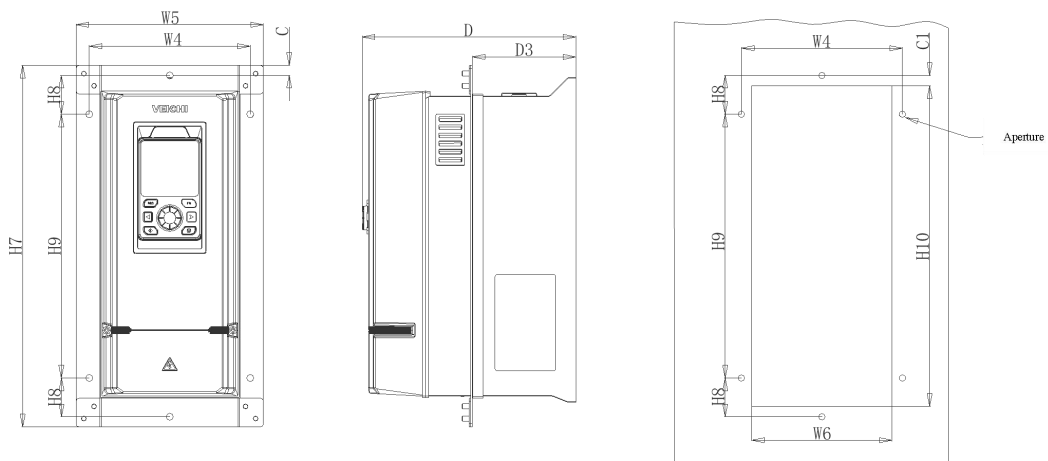


Figure 2-9 V1~V3 Wall-through Drive Overall Dimensions and Hole Size

Table 2-6 V1~V3 Wall-through Drive Overall Dimensions and Hole Size

Type	Model	Outer Dimension (mm)					Hole Size (mm)						Aperture (mm)
		W5	H7	D	D3	C	W4	W6	H8	H9	H10	C1	
V1	AC600-T4-R75G/1R5P-*	185.4	356.4	211.5	102.5	10	159.4	139	38.2	260	316	10.2	4-M4
	AC600-T4-1R5G/2R2P-*												
	AC600-T4-2R2G-*												
	AC600-T4-004G/5R5P-*												
V2	AC600-T4-7R5G/011P-*	202.4	382.4	211.5	103.5	10	176.4	156	51.2	260	342	10.2	4-M5
	AC600-T4-011G-*												
V3	AC600-T4-015G/018P-*	237.4	489.4	237.5	107.5	10	105.7	193	469.4	260	449	10.2	4-M6
	AC600-T4-018G/022P-*												
	AC600-T4-022G/030P-*												

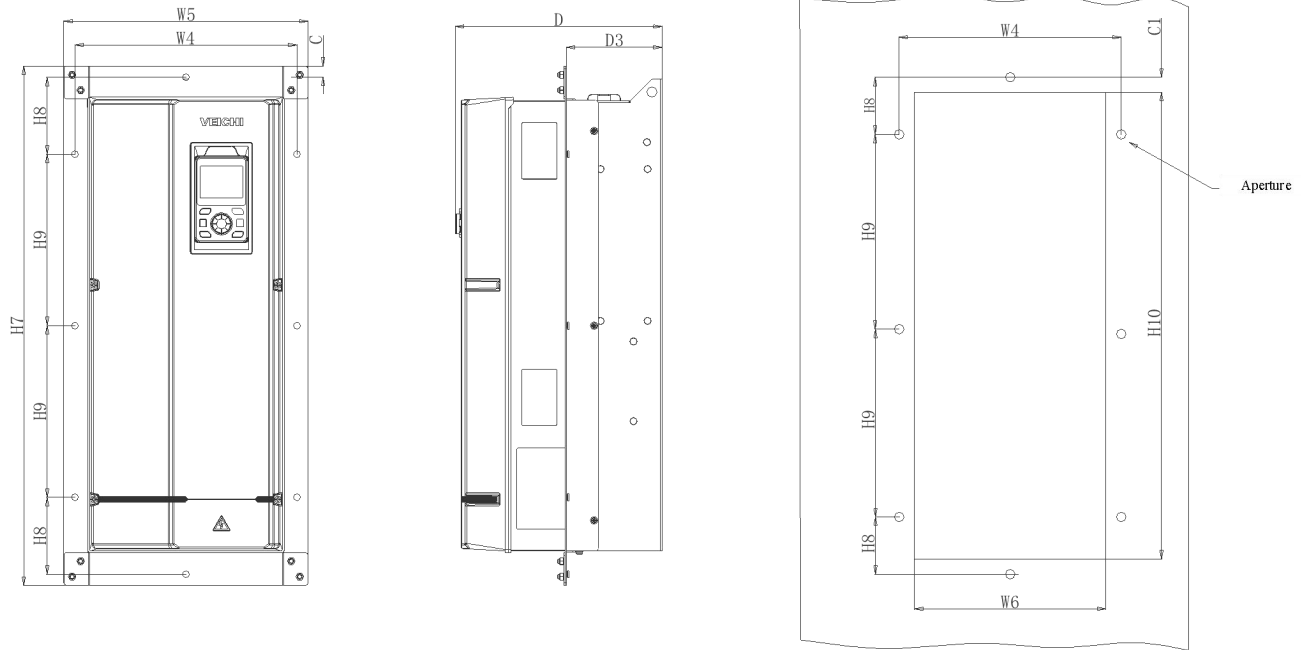


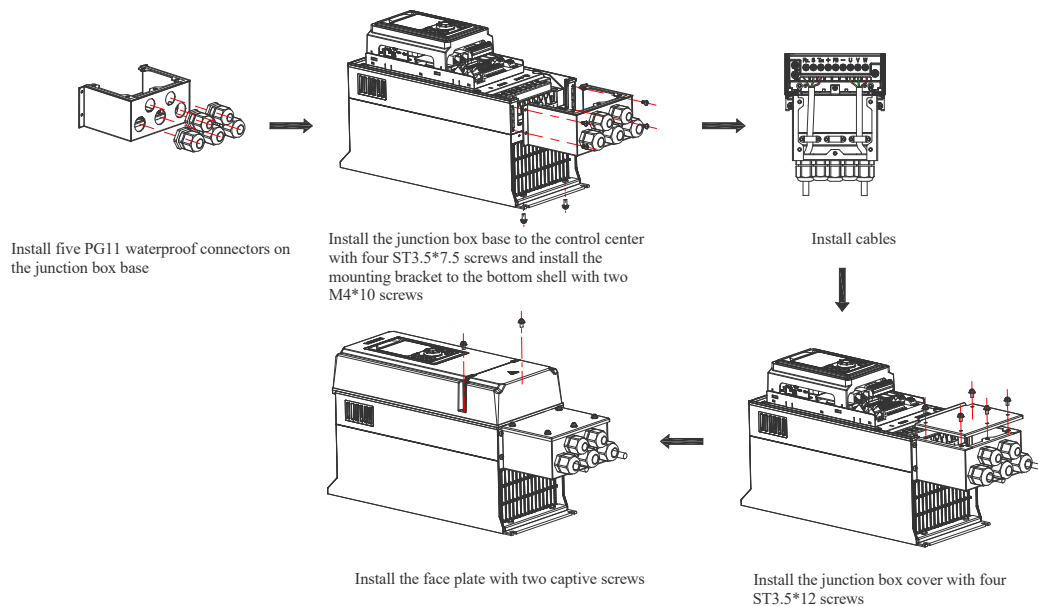
Figure 2-10 V4~V5 Wall-through Drive Overall Dimensions and Hole Size

Table 2-7 V4~V5 Wall-through Drive Overall Dimensions and Hole Size

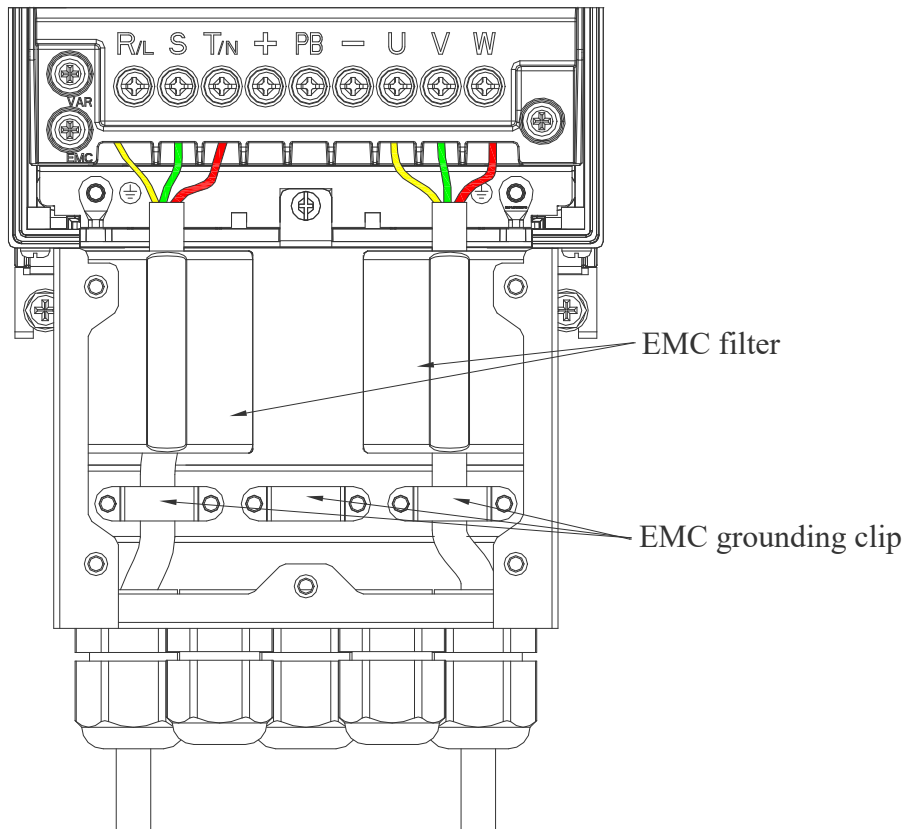
Type	Model	Outer Dimension (mm)					Hole Size (mm)						Aperture (mm)
		W5	H7	D	D3	C	W4	W6	H8	H9	H10	C1	
V4	AC600-T4-030G/037P-*	285.4	605.4	241.5	112	13	259.4	245	89.7	200	559	10.2	4-M5
	AC600-T4-037G/045P-*												
	AC600-T4-045G/055P-*												
V5	AC600-T4-055G/075P-*	326.4	690.4	280.5	117	13	300.4	283	107.2	225	644	10.2	4-M6
	AC600-T4-075G/090P-*												

Installation steps

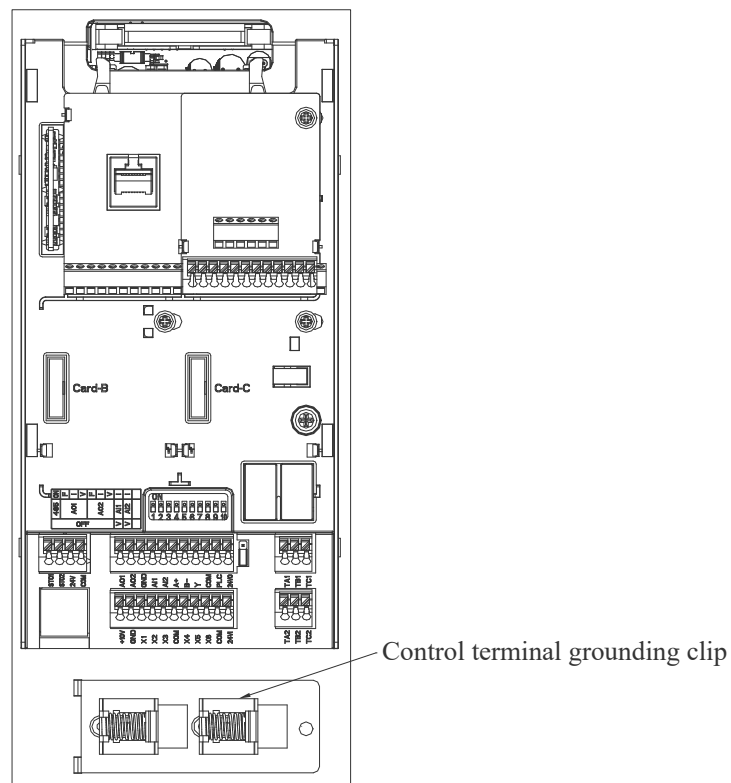
- Take 5.5kW as an example:



- Diagram of optional EMC filter and grounding clip



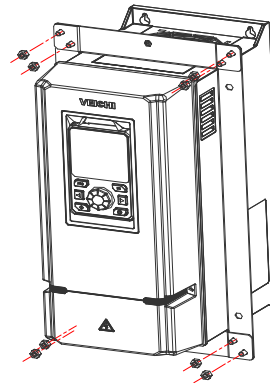
- Diagram of control terminal grounding



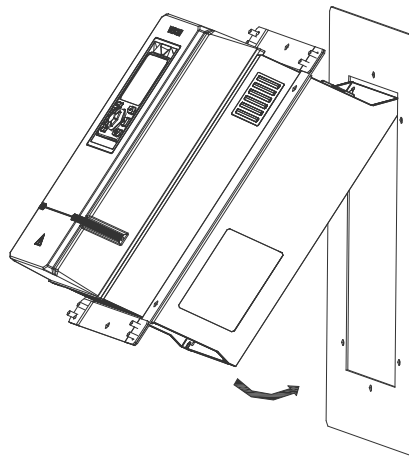
- Diagram of wall-through installation (example with 5.5)



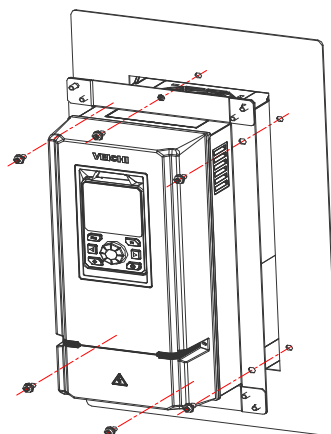
1. Secure the upper and lower brackets of the flange mounting bracket with self-tapping screws



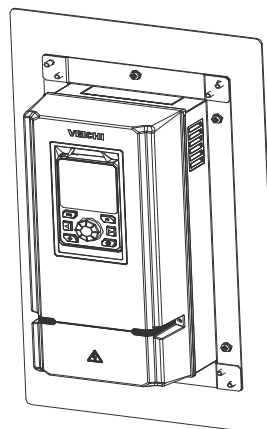
2. Secure the flange mounting bracket tightly with M5 nuts



3. Insert the device with the flange bracket into the installation slot diagonally and rotate to align in the direction of the arrow



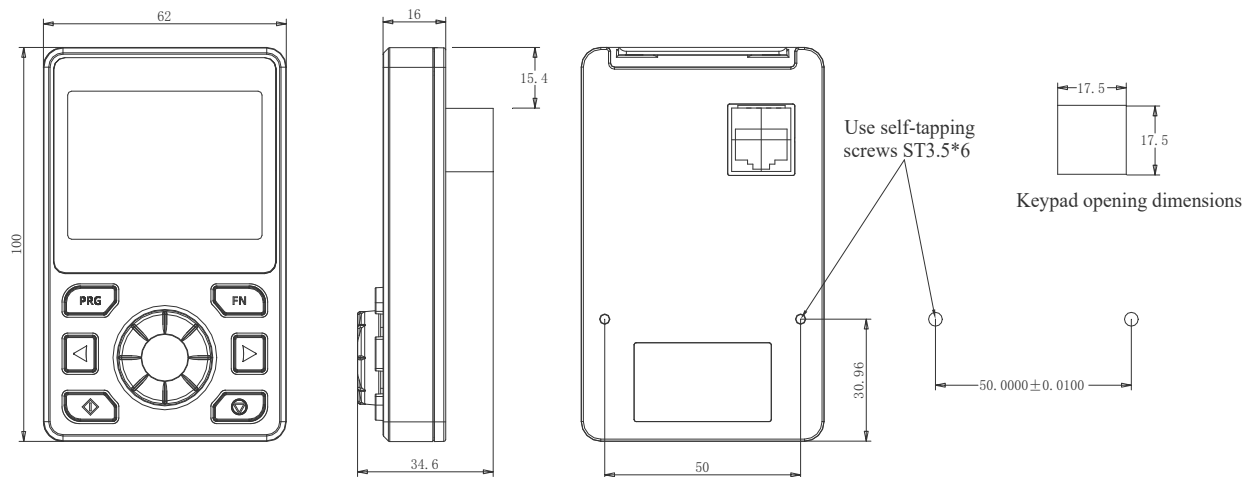
4. Secure the device to the bracket with 5PCS screws



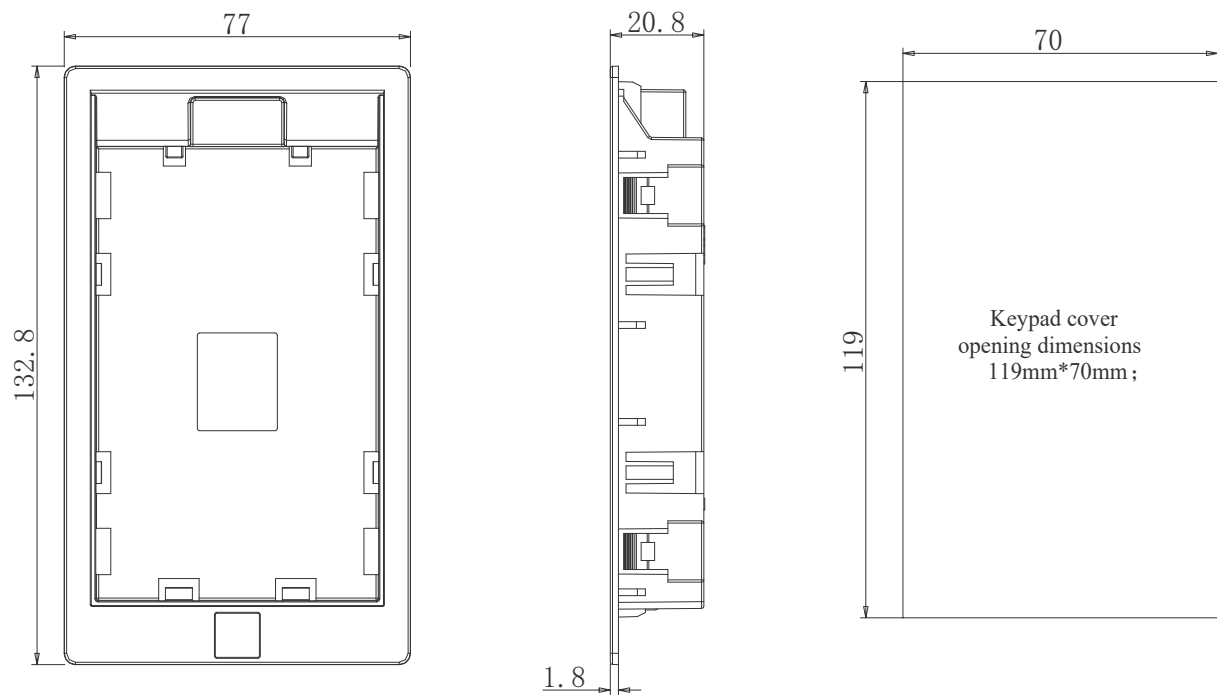
5. Complete the installation

Keypad and opening dimensions

- Boundary dimension and bore dimension of external dual-line keypad (unit: mm)

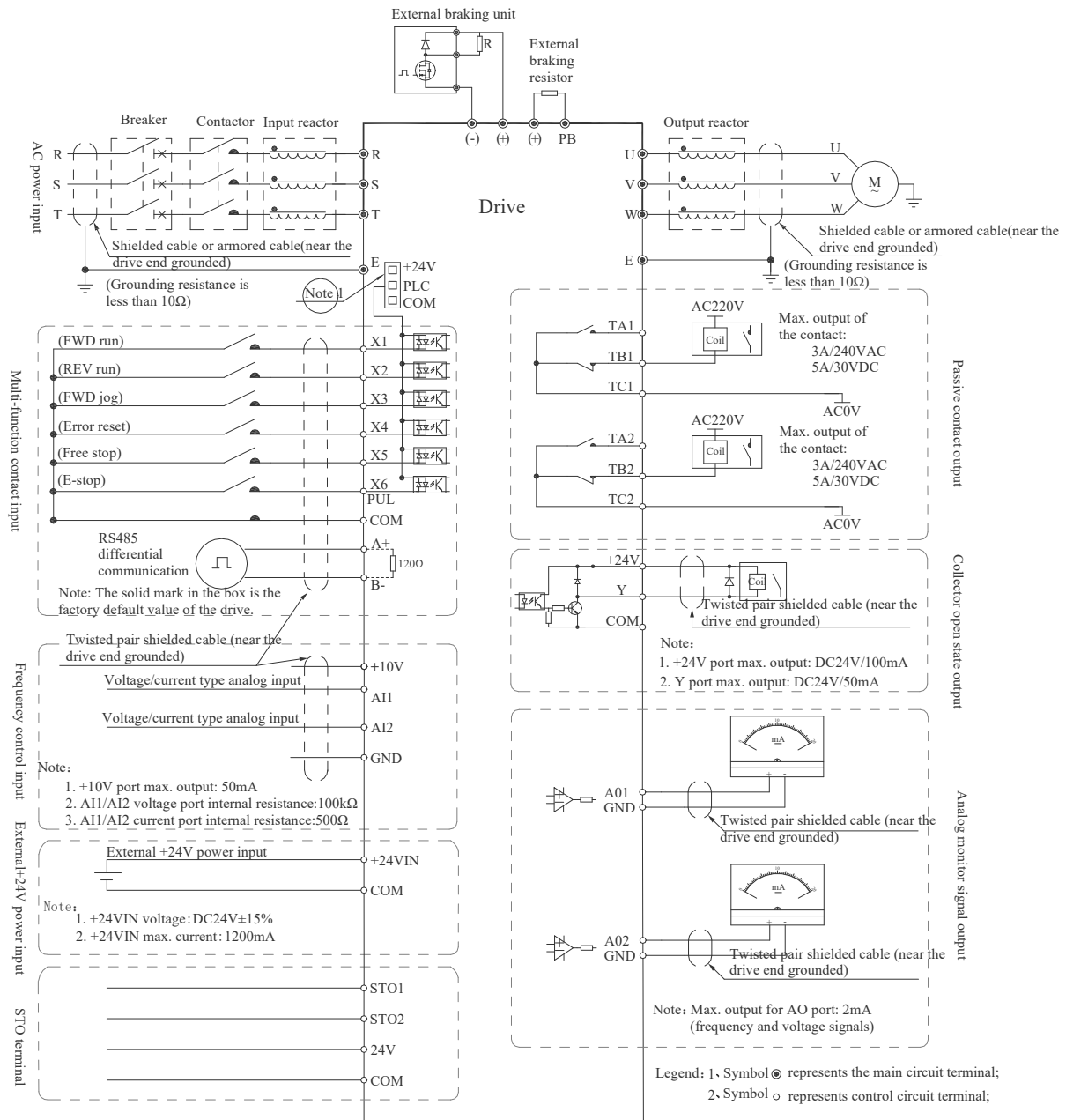


- Boundary dimension and bore dimension of external dual-line keypad cover (unit: Mm)



2.5 Standard Wiring

2.5.1 Standard Wiring



1. Models T4-22kW and below have built-in braking units, which need to be connected with braking resistors as required; For models without built-in brake units, external brake unit can be installed as required.
2. Terminals (X1~X6/PUL) support NPN or PNP transistor signal input, and the bias voltage can be selected from the internal power supply of AC drive (+24V terminal) or external power supply (PLC terminal).

2.5.2 STO

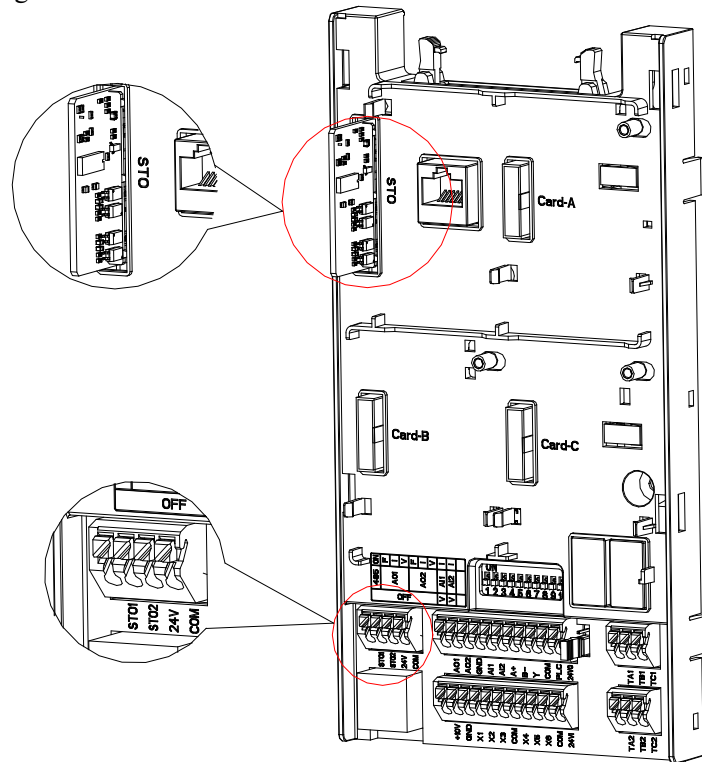
Safety Torque Off (STO) is a safety function in accordance with IEC 61800-5-2: 2016. The AC600 series offers STO options.

STO disables the PWM signal of the drive to close the output of the power devices and cut off the motor torque, then the motor safely enter a torque-free state to avoid accidental start-up. When STO is activated, the running motor stops freely.

The STO function blocks the PWM signal output to the power devices through external redundant hardware terminals STO1 and STO2, thus preventing the motor from operation.

Input signals to STO1 and STO2 terminal must both be active (STO shorted to 24V) to enable normal operation of the motor.

The STO board has four PIN terminals, namely STO1, STO2, + 24V and COM, and has one SPI extension port, as shown in the following figure:

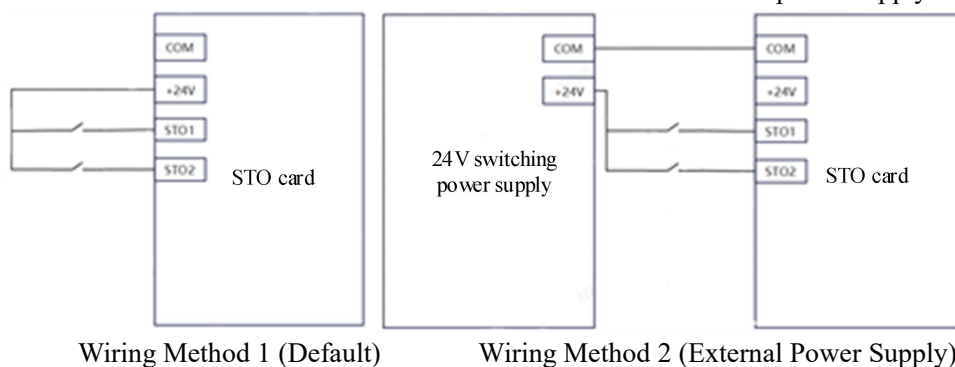


STO functions are as follows:

(STO1, +24V)	(STO2, +24V)	PWM Output
Shorted	Shorted	Normal
Shorted	Open	Disabled
Open	Shorted	Disabled
Open	Open	Disabled

STO application:

1. STO1 and STO2 terminals are shorted with + 24V terminals on STO board;
2. External 24V power supply is used here. COM of external 24V power supply is shorted to COM on STO board, and STO1 and STO2 terminals are shorted to + 24V terminal of external 24V power supply.



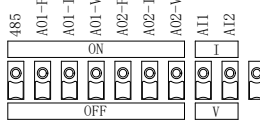
Wiring Method 1 (Default)

Wiring Method 2 (External Power Supply)

Note 1: LED indicator logic on the STO board:

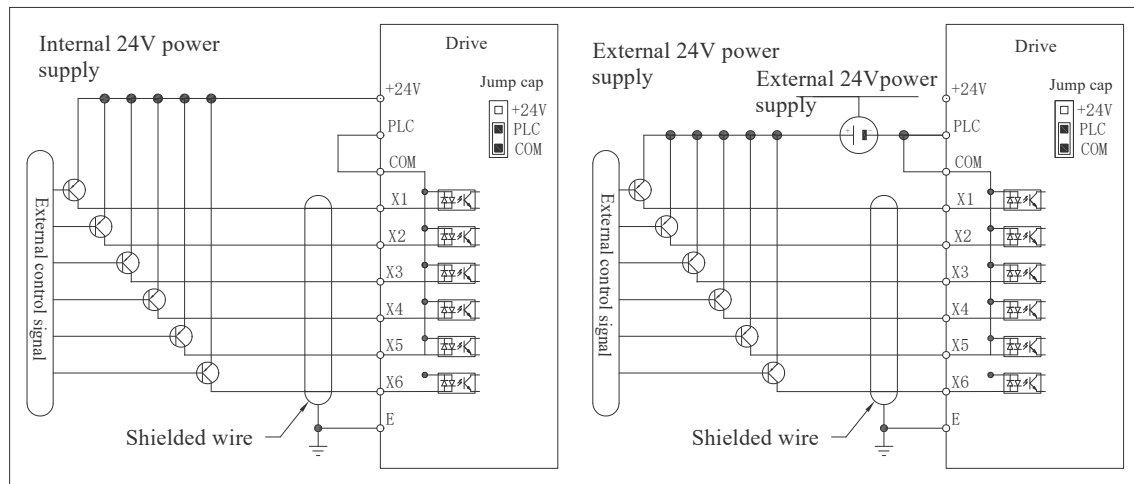
- a. Program operation flag bit detection, LED2 indicator is on;
- b. Chip cycle detection, LED1 and LED2 indicators are on at the same time;
- c. Chip activation detection, LED1 indicator is on;
- d. The diagnosis is not reported currently, but it will be identified through the serial port. (Indicators ON or OFF above on the STO board has nothing to do with STO function triggering, so it needs no treatment.)

2.5.3 Illustration and Description of DIP Switch

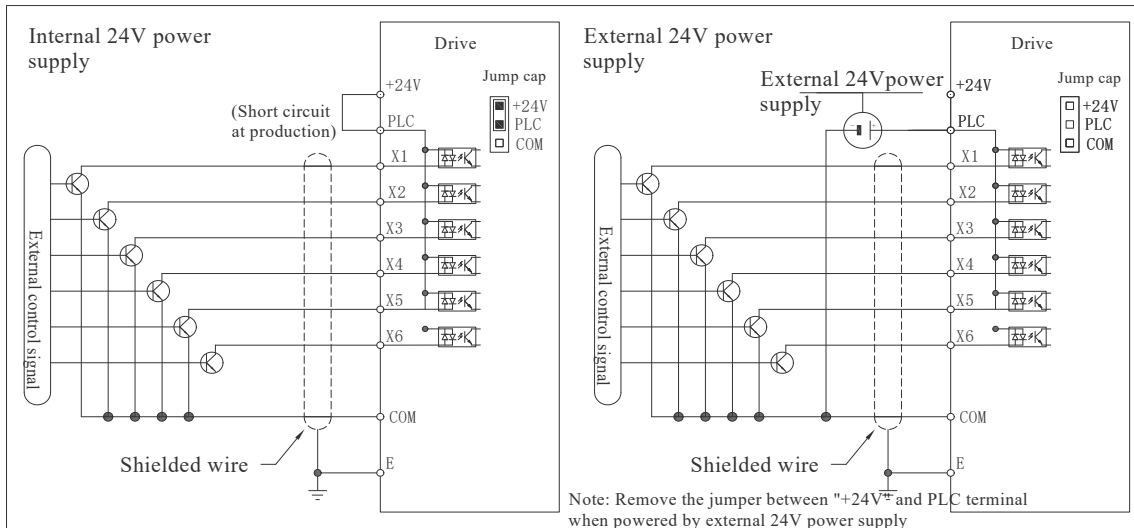
Illustration	Pin	Description
	485 terminating resistor	RS485 dialed to ON, and then communication circuit is connected to a 120Ω terminating resistor
	AO1 Output - Frequency	0.0kHz~100.0kHz frequency output from AO interface AO-F dialed to ON, and voltage needs to be increased by adding external appliances (typically increased to 10V by connecting a 5.1kΩ resistor)
	AO1 Output - Current	AO-I dialed to ON to output current of 0mA~20mA or 4mA~20mA
	AO1 Output - Voltage	AO-V dialed to ON to output voltage of 0V~10V
	AO2 Output - Frequency	0.0kHz~100.0kHz frequency output from AO interface AO-F dialed to ON, and voltage needs to be increased by adding external appliances (typically increased to 10V by connecting a 5.1kΩ resistor)
	AO2 Output - Current	AO-I to ON to output current of 0mA~20mA or 4mA~20mA
	AO2 Output - Voltage	AO-V dialed to ON to output voltage of 0V~10V
	AI1 Input - Current/Voltage	AI1 to I: 0mA~20mA input; AI1 to V: 0V~10V input
	AI2 Input - Current/Voltage	AI2 to I: 0mA~20mA input; AI2 to V: -10V~10V input

2.5.4 Multi-function Input Connection

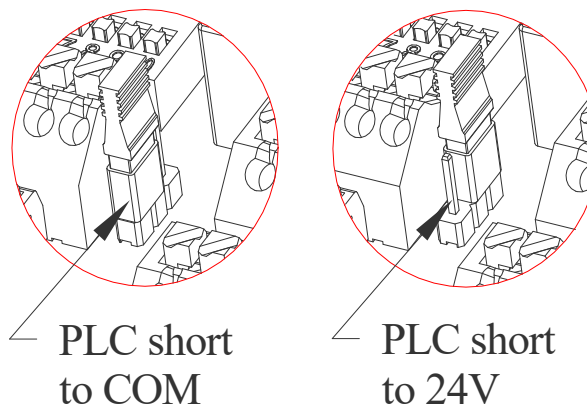
Wiring method of PNP transistor:



Wiring method of NPN transistor:



2.5.5 Connection of Jumper Caps "+24V", "PLC", and "COM"

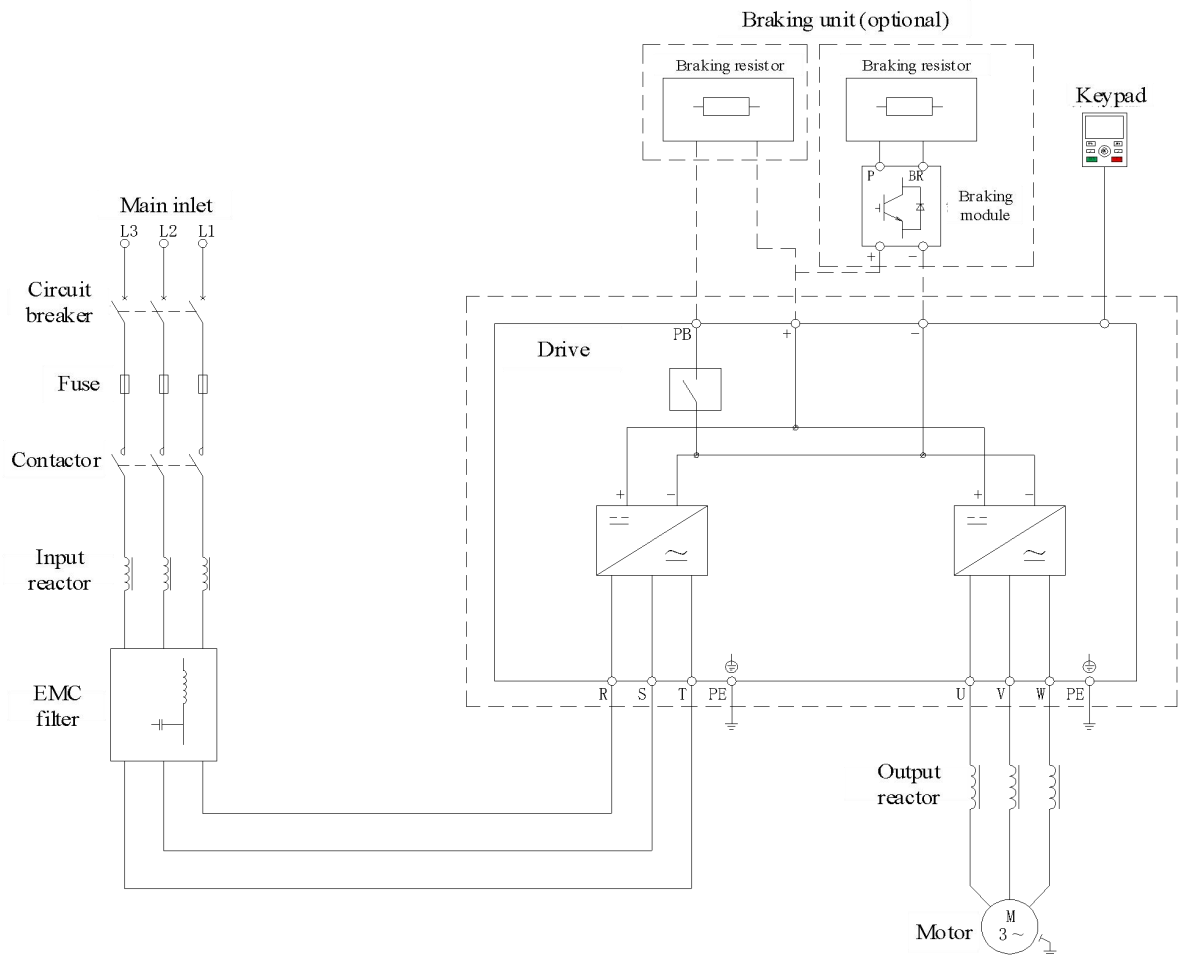


PLC short
to COM

PLC short
to 24V

2.6 Wiring of Main Circuit

2.6.1 Wiring of Main Circuit



2.6.2 Arrangement and Definition of Main Circuit Terminals

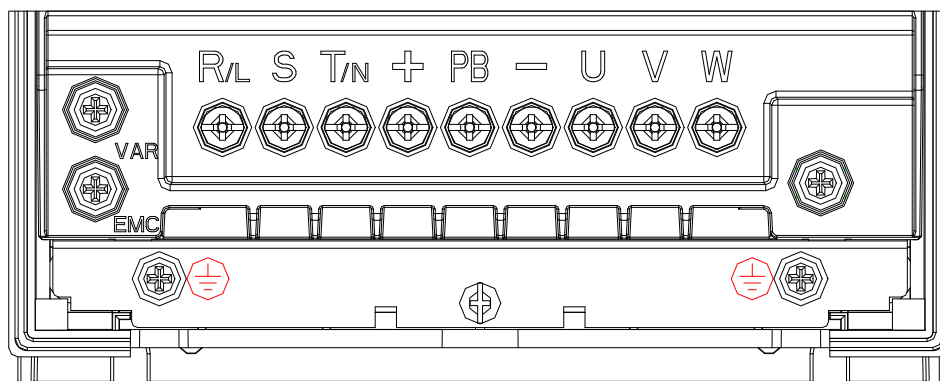


Table 2-8 Arrangement and Definition of AC600 Series Main Circuit Terminals

Mark	Name	Description
(-)	DC power terminal	Output DC power; (-) is the cathode of the DC bus, and (+) is the anode of the DC bus; for connecting to an external braking unit.
(+)		
(+)	Brake resistor terminal	For connecting to the external braking resistors to realize quick stop.
PB		
R/L	Drive input terminal	For connecting to three-phase AC supply.
S		
T/N		
U	Drive output terminal	For connecting to the motor.
V		
W		
	Ground	Grounding terminal, with the grounding resistance <10ohm.
VAR	Ground	Varistor grounding terminal (disconnectable ground)
EMC	Ground	Input-side EMC grounding terminal (disconnectable ground)

- Connection of braking resistor for drives below 37kW (inclusive):

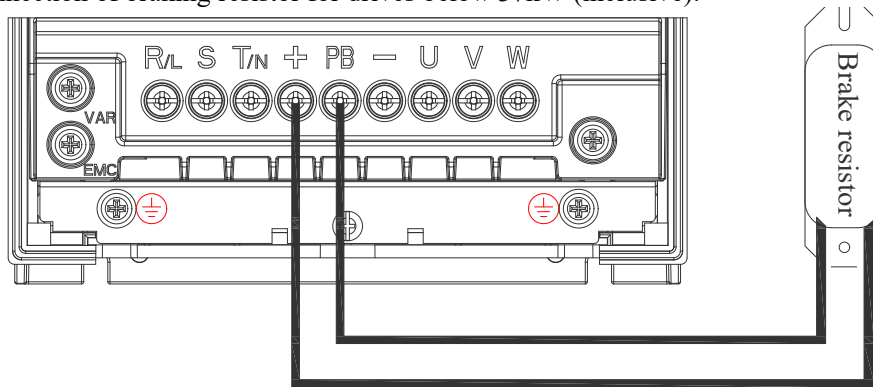


Figure 2-11 Connection of Braking Resistor for AC600 Series Drives below 37kW (Inclusive)

- Connection of braking resistor for drives of 45kW~75kW:

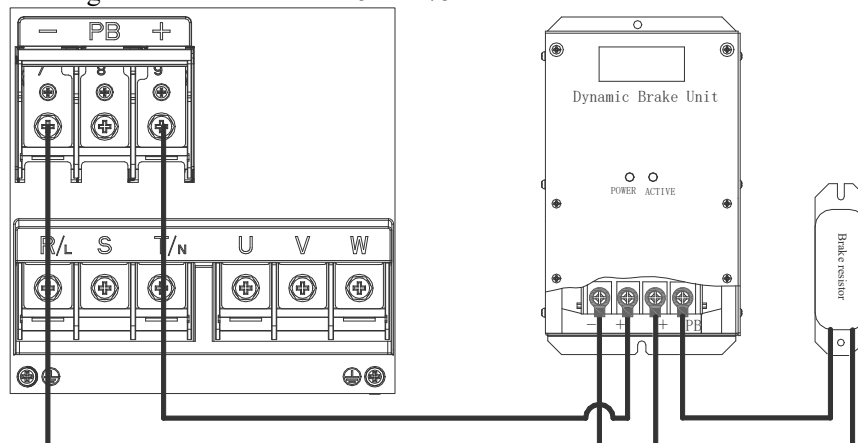


Figure 2-12 Connection of Braking Resistor for AC600 Series Drives of 45kW~75kW

- Connection of braking resistor for drives above 90kW (inclusive):

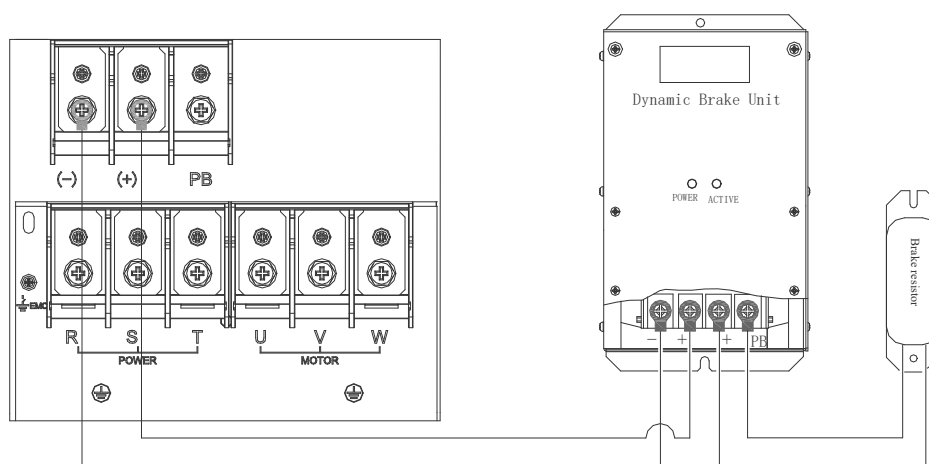


Figure 2-13 Connection of Braking Resistor for AC600 Series Drives above 90kW (Inclusive)

Note: The drives of T4-22kW and below comes with a built-in braking unit, the drives of T4-30kW~110kW available with an optional built-in braking unit, and the drives of T4-132kW and above can be externally connected to a braking unit. If a built-in braking unit is present, no external connection is required. If connecting an external braking unit, select the braking resistor based on both the external unit and the drive's limitations. For specifications or inquiries, contact the Customer Service Department of Suzhou Veichi Electric Co., Ltd. if needed.

● Recommended brake resistor

The braking resistor value and resistance power described in the following table are verified according to the common inertia load and intermittent braking mode. If it needs to be used in the occasion with large inertia and frequent braking for a long time, please adjust the braking resistor value and resistance power appropriately according to the specifications of the selected drive and the rated parameters of the braking unit. If there is any doubt, please consult the Customer Service Department of Suzhou VEICHI Electric Co., Ltd.

Table 2-9 Recommended Braking Resistor Specifications for AC600 Series Drive

Three-Phase 380V~480V			
Motor Power (kW)	Resistance (Ω)	Resistance Power (kW)	Braking Torque (%)
0.75	750	0.15	100
1.5	400	0.30	100
2.2	250	0.40	100
4.0	150	0.50	100
5.5	100	0.60	100
7.5	75	0.78	100
11	50	1.2	100
15	40	1.5	100
18.5	32	2.0	100
22	32	2.0	100
30	24	3.0	100
37	20	3.7	100
45	16	4.5	100
55	13	5.5	100
75	9.0	7.5	100
90	6.8	9.3	100
110	6.2	11.0	100

132	4.7	13.0	100
160	3.9	15.0	100
185	3.3	17.0	100
200	3.0	18.5	100
220	2.7	20.0	100
250	2.4	22.5	100
280	2.0	25.5	100
315	1.8	30.0	100
355	1.5	33.0	100
400	1.2	42.0	100
450	1.2	42.0	100
500	1.0	42.0	100
560	1.0	50.0	100

● Max. braking output of built-in braking unit

The built-in braking unit for the AC600 series low-power models should be configured according to the recommended braking resistor specifications in Table 3. In applications with high inertia and frequent long-term braking, increasing the braking torque may be necessary. The table below outlines the maximum braking force; exceeding these limits in practice may damage the equipment. If there is any doubt, please consult the Customer Service Department of Suzhou VEICHI Electric Co., Ltd.

Table 2-10 Max. Braking Output of AC600 Series Built-in Braking Unit

Three-Phase 380V~480V			
Model	Motor Power (kW)	Max. Braking Current (A)	Min. Resistance (Ω)
AC600-T4-R75G/1R5P-*	0.75	3.5	200
AC600-T4-1R5G/2R2P-*	1.50	3.5	200
AC600-T4-2R2G/004P-*	2.2	7.0	100
AC600-T4-004G/5R5P-*	4.0	10	75
AC600-T4-5R5G/7R5G-*	5.5	10	75
AC600-T4-7R5G/011P-*	7.5	14	50
AC600-T4-011G/015P-*	11.0	17	40
AC600-T4-015G/018P-*	15.0	23	30
AC600-T4-018G/022P-*	18.5	28	25
AC600-T4-022G/030P-*	22.0	28	25

Note: The -* indicates derivative models of the AC600 series, which can be chosen by consulting the table above.

2.6.3 Recommended Main Circuit Components Specification

Model	Contactor Specs (A)	Breaker Specs (A)	Fuse Specs (A)	Fuse Model	Input Reactor	Sine Wave Filter
AC600-T4-R75G-*	10	10	10	KTK-10	VC-ACL-C-03P7A-T3-2M24	JL-SWF-4-004
AC600-T4-1R5G-*	10	10	10	KTK-10	VC-ACL-C-03P7A-T3-2M24	JL-SWF-4-004
AC600-T4-2R2G-*	16	15	15	KTK-15	VC-ACL-C-05P5A-T3-2M18	JL-SWF-4-008
AC600-T4-004G-*	16	20	30	KTK-30	VC-ACL-C-0009A-T3-1M85	JL-SWF-4-017
AC600-T4-5R5G-*	25	20	30	KTK-30	VC-ACL-C-0013A-T3-1M56	JL-SWF-4-017
AC600-T4-7R5G-*	25	30	40	FWH-50B	VC-ACL-C-0018A-T3-1M00	JL-SWF-4-017
AC600-T4-011G-*	32	40	60	FWH-70B	VC-ACL-C-0024A-T3-M520	JL-SWF-4-024
AC600-T4-015G-*	40	50	80	FWH-70B	VC-ACL-C-0034A-T3-M400	JL-SWF-4-032
AC600-T4-018G-*	50	60	100	FWH-90B	VC-ACL-C-0038A-T3-M350	JL-SWF-4-038
AC600-T4-022G-*	50	75	100	FWH-100B	VC-ACL-C-0050A-T3-M260	JL-SWF-4-048
AC600-T4-030G-*	63	100	150	FWH-125B	VC-ACL-C-0060A-T3-M240	JL-SWF-4-062
AC600-T4-037G-*	80	125	200	FWH-125B	VC-ACL-C-0075A-T3-M235	JL-SWF-4-072
AC600-T4-045G-*	100	150	200	FWH-150B	VC-ACL-C-0091A-T3-M170	JL-SWF-4-115
AC600-T4-055G-*	125	175	250	FWH-200B	VC-ACL-A-0112A-T3-M110	JL-SWF-4-115
AC600-T4-075G-*	160	200	325	FWH-250C	VC-ACL-A-0150A-T3-M082	JL-SWF-4-180
AC600-T4-090G-*	220	250	400	FWH-275C	VC-ACL-A-0200A-T3-M070	JL-SWF-4-180
AC600-T4-110G-*	220	300	500	FWH-325C	VC-ACL-A-0224A-T3-M056	JL-SWF-4-260
AC600-T4-132G-*	250	400	600	FWH-400A	VC-ACL-A-0280A-T3-46U6	JL-SWF-4-260
AC600-T4-160G-*	300	500	700	FWH-500A	VC-ACL-A-0315A-T3-38U8	JL-SWF-4-410
AC600-T4-185G-*	400	600	800	FWH-600A	VC-ACL-A-0400A-T3-36U8	JL-SWF-4-410
AC600-T4-200G-*	400	700	800	FWH-600A	VC-ACL-A-0400A-T3-36U8	JL-SWF-4-410
AC600-T4-220G-*	630	800	1000	FWH-700A	VC-ACL-A-0450A-T3-33U3	JL-SWF-4-480

AC600-T4-250G-*	630	1000	1000	FWH-800A	VC-ACL-A-0560A-T3-26U4	JL-SWF-4-480
AC600-T4-280G-*	630	1200	1000	FWH-800A	VC-ACL-A-0560A-T3-26U4	JL-SWF-4-660
AC600-T4-315G-*	630	1200	1400	170M5016	VC-ACL-A-0630A-T3-23U3	JL-SWF-4-660
AC600-T4-355G-*	800	1400	1600	170M5016	VC-ACL-A-0720A-T3-18U4	JL-SWF-4-750
AC600-T4-400G-*	1000	1600	1600	170M6017	VC-ACL-A-0720A-T3-18U4	JL-SWF-4-750
AC600-T4-450G-*	1000	2000	1800	170M6017	VC-ACL-A-1000A-T3-14U7	JL-SWF-4-880
AC600-T4-500G-*	1000	2000	1800	170M6017	VC-ACL-A-1000A-T3-14U7	JL-SWF-4-880
AC600-T4-560G-*	1200	2000	-	-	VC-ACL-A-1250A-T3-11U6	JL-SWF-4-1200

2.7 Wiring of Control Circuit

2.7.1 Arrangement of Control Circuit Terminals

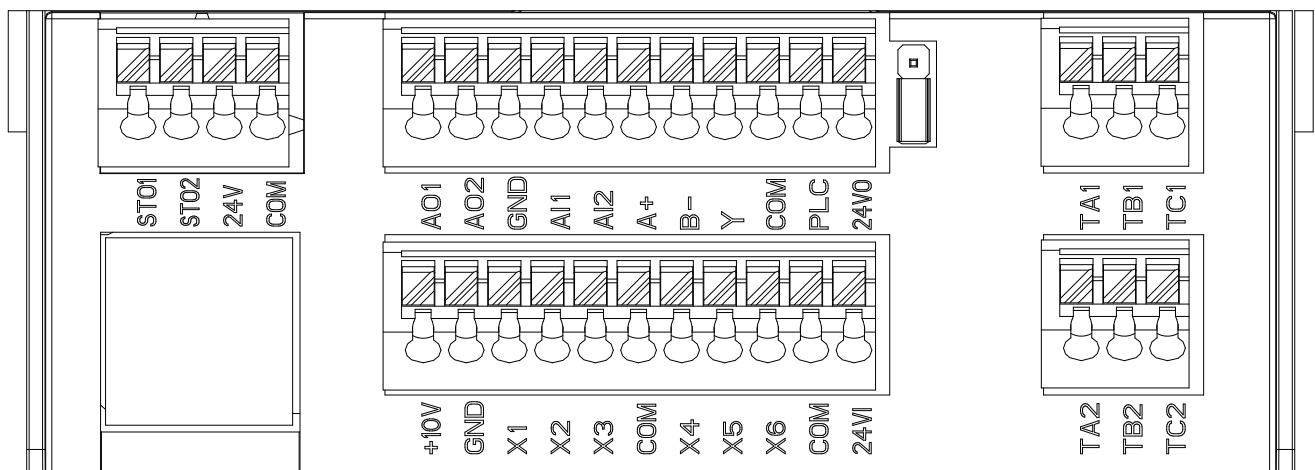


Table 2-11 Arrangement and Definition of AC600 Series Control Circuit Terminals

Type	Mark	Name	Description
Power	+10V-GND	External supply +10V power	Provide +10V power supply with maximum output current of 50mA; generally used as the power supply for external potentiometer with the resistance range of 1kΩ-5kΩ
	+24V-COM	External supply +24V power	Provide +24 V power supply, generally used as the power supply for DI and DO terminals and external sensors Max. output current: 100mA
	+24VIN-COM	Input 24V power supply	An external 24V power is input to generate control voltage Input voltage range: DC24V ±15%, max. current 1200mA
	PLC	External terminal common	Connect to +24V by factory default When driving X1-X6/PUL with external signals, connect the PLC to the external power supply and disconnect it from the +24V supply (refer to the “+24V”, “PLC”, and “COM” diagrams).

STO Terminal	STO1	STO 24V power supply terminal	Connected to an external power supply or to the onboard +24V power supply.
	STO2	STO 24V power supply terminal	
AI	AI1-GND	Voltage/current AI	1. Range: DC 0V~10V/0mA~20mA 2. Voltage impedance: 100k Ω 3. Current impedance: 500 Ω
	AI2-GND	Voltage/current AI	1. Range: DC 0V~10V/0mA~20mA 2. Voltage impedance: 100k Ω 3. Current impedance: 500 Ω
DI	X1-PLC	Multi-function terminal input 1	Optocoupler isolated, compatible with bipolar input. 1. Input impedance: 4.4k Ω 2. Voltage range at high-level: 10V~30V 3. Voltage range at low-level: 0V~5V
	X2-PLC	Multi-function terminal input 2	
	X3-PLC	Multi-function terminal input 3	
	X4-PLC	Multi-function terminal input 4	
	X5-PLC	Multi-function terminal input 5	
	X6-PLC	Multi-function terminal input 6	
	X6/PUL-PLC	Multi-function terminal input 6/High-speed pulse input	Except for the features of X1~X5, X6 can be used for high-speed pulse input (special model). 1. Opto-isolator, compatible with bipolar input, max frequency 100kHz 2. Input impedance: 1.5k Ω 3. Pulse input level range: 10V~30V
AO	AO1-GND	Analog output 1	1. Voltage range: DC 0V~10V 2. Current range: DC 0mA~20mA 3. Pulse range: 0kHz~50kHz
	AO2-GND	Analog output 2	
DO	Y-COM	Digital output 1	Opto-isolator, open collector output 1. Voltage range: DC 0V~30V 2. Current range: DC 0mA~50mA
RO	TA1-TC1	Normally open	Drive capacity: 240VAC, 3A 30VDC, 5A
	TB1-TC1	Normally closed	
	TA2-TC2	Normally open	
	TB2-TC2	Normally closed	
Communication Terminal	A+	Communication terminal A+	RS485 communication port According to the illustration and description of DIP switch function, the position of the RS485 DIP switch determines whether the RS485 communication is connected to 120 Ω terminal resistor
	B-	Communication terminal B-	

2.7.2 Control Circuit Wiring Specification

Table 2-12 Control Circuit Wiring Specification

Name	Cable Size (mm ²)	Cable Type
A+, B-	0.75	Shielded twisted pair
+10V GND A01 AO2 AI1 AI2	0.75	Shielded twisted pair
+24VIN +24V COM Y TA TB TC PLC X1 X2 X3 X4 X5 X6/PUL STO1 STO2	0.75	Shielded cable

3 Keypad Layout and Operation Instructions

Keypad description



Figure 3-1 Keypad Description

Table 3-1 Indicator Description

Region	Icon	Name	Description
A		Slave station indicator	Displays different slave stations
B		Fault indicator	Constantly on for fault and flashes for alarm
		Operation indicator	Constantly on or flashes when an operation command is active
		Stop indicator	Constantly on during stop
		FWD indicator	Constantly on during forward operation
		REV indicator	Constantly on during reverse operation
		Parameter status indicator	Constantly on when parameters are read-only.
		Parameter initialization indicator	Constantly on when parameters cannot be initialized.
C		Motor mode indicator	Constantly on in asynchronous motor control mode
			Constantly on in synchronous motor control mode
			Constantly on in reluctance motor control mode
		Speed mode indicator	Constantly on in speed mode
		Torque mode indicator	Constantly on in torque mode
		Multi-function key indicator	Constantly on when multi-function key is enabled
		Operation mode indicator	LOC constantly on: Local control (via keypad) REM constantly on: Remote control (via terminals) REM flashing: Remote control (via communication) LOC flashing: Keypad communication error

D		Unit indicator	Indicates parameter units; no unit lights if not among the 9 units listed.
E		PRG	Short press: Return/Cancel; Long press: Enter Monitor C parameter interface
		Multi-function key	Short press to activate
		Left, Right	In main interface: Cycle through the two rows of monitoring parameters; in other interfaces: Shift left/right.
		RUN	Short press to run
		Stop	Short press to stop
		Digital potentiometer knob	Press to confirm, rotate clockwise to increase value, and rotate counterclockwise to decrease value.

Table 3-2 Key Description

Function/Icon	Description
Forward operation	Operation indicator is constantly on, and indicator FWD is on.
Reverse operation	Operation indicator is constantly on, and indicator REV is on.
Jogging	Operation indicator flashes, 1s interval.
Stopped, no fault	Stop indicator is constantly on.
Stopped, fault	Fault indicator is constantly on.
Stopped, warning	Fault indicator flashes, 1s interval.
Forward operation, warning	Operation indicator is constantly on, indicator FWD is on, and fault indicator flashes, 1s interval.
Reverse operation, warning	Operation indicator is constantly on, indicator REV is on, and fault indicator flashes, 1s interval.
Motor control mode	AM indicates asynchronous motor, PM indicates permanent magnet synchronous motor, and SRM indicates synchronous reluctance motor.
	Indicates parameter units; no unit lights if not among the 9 units listed.
	Speed mode (lights up in this mode)
	Torque mode (lights up in this mode)
	Multi-function key enabled (lights up when active)
	LOC constantly on: Local control (via keypad) REM constantly on: Remote control (via terminals) REM flashing: Remote control (via communication) LOC flashing: Keypad communication error
	Short press: Return/Cancel; Long press: Enter Monitor C parameter interface
	Short press: Multi-function key
	In main interface: Cycle through the two rows of monitoring parameters; in other interfaces: Shift left/right.
	Run
	Stop
	Digital potentiometer knob: Press to confirm, rotate clockwise to increase value, and rotate counterclockwise to decrease value.
	Enter Self-test interface: Press any key individually to display key count on screen.
	Exit Self-test or Keypad Parameter interface.
	Enter Keypad Parameter (KP) interface.

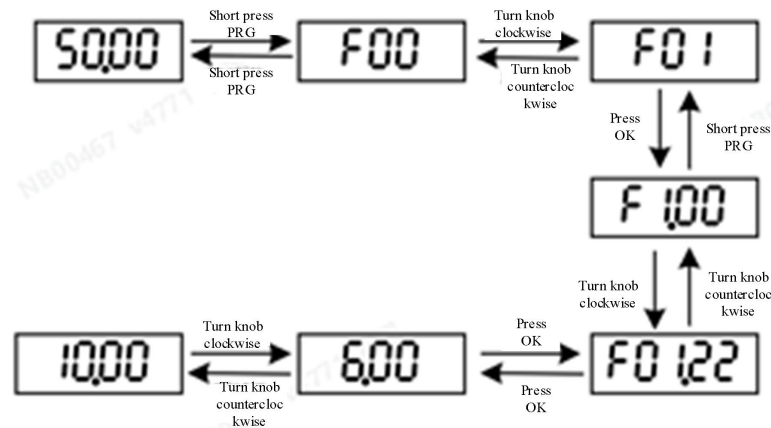


All indicators in Self-test interface on.

Description

- Set the basic parameters

Take F01.22 [ACC Time 1]= 10.00s as an example.

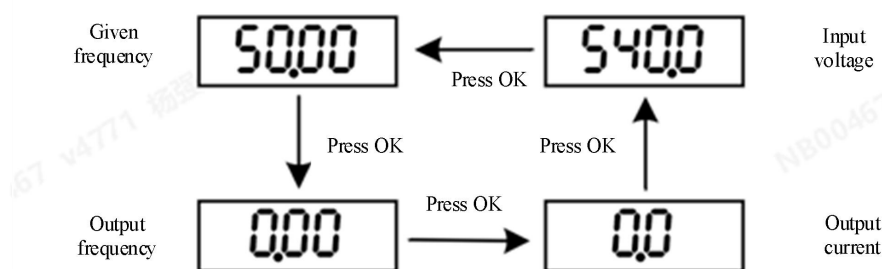


Note

To modify the tens-, hundreds- and thousands-bit of a parameter, press Left/Right for quick positioning.

- Check monitoring status

Take the default monitoring state check as an example.

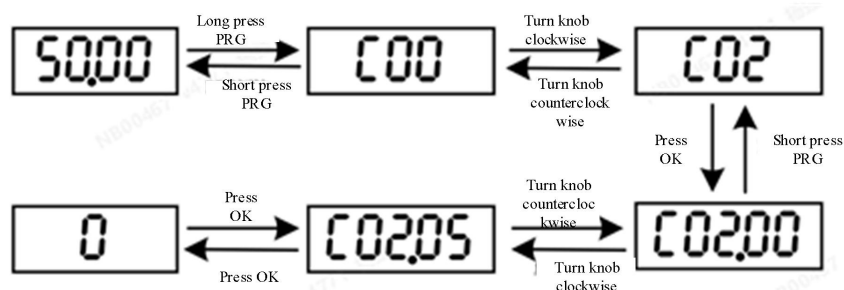


Note

Press Left to cycle through the first row of monitoring parameters and Right to cycle through the second row when it is an external keypad.

- Check the monitoring parameters

Take the C03.05 [PLC Operation Stage] as an example.



4 Parameter and Function Code Description

4.1 Terms and Marks

◆ Marks and terms of control modes

Mark	Description
V/F	Valid parameters under AM V/F control.
SVC	Valid parameters under AM open-loop vector control.
FVC	Valid parameters under AM closed-loop vector control.
PMV/F	Valid parameters under PM V/F control.
PMSVC	Valid parameters under PM open-loop vector control.
PMFVC	Valid parameters under PM closed-loop vector control.

Note

The unshaded control mode icon indicates that the parameter is invalid for that control mode.

◆ indicates the adjustable attributes of the parameters

Adjustable Attributes	Description
STOP	This parameter can't be modified when AC drive is operating.
RUN	This parameter can be modified when AC drive is operating.
READ	This parameter is read-only.

4.2 Parameter Group

Parameter		Name
F00: Environmental Settings	F00.0x	Environment
	F00.1x-2x	System
F01 Basic Command Parameters	F01.0x	Basic Commands
	F01.1x	Frequency Range
	F01.2x-F01.3x	ACC/DEC Time
	F01.4x	PWM
F02 Motor 1	F02.0x	Basic Parameters and Auto-tuning
	F02.1x	AM Parameters
	F02.2x- F02.5x	PM Parameters
	F02.6x-F02.7x	Tuning Extension
F03: Vector Control	F03.0x	ASR Control
	F03.1x	ACR and Torque Limit
	F03.2x	Torque Optimization
	F03.3x	Flux Optimization
	F03.4x	PM HF Injection
	F03.5x-F03.9x	Extension
F04: V/F Control	F04.0x	V/F Control
	F04.1x	User-defined V/F Curves
	F04.2x	VF-SPLIT Control
	F04.3x	V/F ECO Function
	F04.4x	V/F PM Anti-oscillation
	F04.5x	V/F PM Flux Control
	F04.6x- F04.8x	V/F PM Current Control
F05 DI Terminal	F05.0x	Terminal Function
	F05.1x-2x	Terminal Operation Control
	F05.3x	PUL Terminal
	F05.4x-F05.5x	vX Terminal

F06 DO Terminal	F06.0x	Terminal Operation
	F06.1x	Terminal Delay
	F06.3x-4x	vY Terminal
F07 AI Terminal	F07.0x	Type
	F07.1x	Line Setting
	F07.2x	Curve 1 Setting
	F07.3x	Curve 2 Setting
	F07.4x	AI as XI
F08 AO Terminal	F08.0x	AO1
	F08.1x	AO2
F09 Operation Control	F09.0x	Start Control
	F09.1x	Stop Control
	F09.2x	DC Braking
	F09.3x	Jogging
	F09.4x	Start/Stop Hold Frequency and Jump Frequency
	F09.5x	Fly Track
F10 Protection Parameter	F10.0x	Current Protection
	F10.1x	Voltage Protection
	F10.2x	Auxiliary Protection
	F10.3x	Load Protection
	F10.4x	Stall Protection
	F10.5x	Motor Overload
	F10.6x-8x	Error Handling
F11 Keypad Parameter	F11.0x	Key Operation
	F11.1x	Cyclic Monitoring of Status Interface
	F11.2x	Monitoring Parameters
	F11.3x	Keypad Communication Parameter
F12 Communication Parameters	F12.0x	Modbus Slave
	F12.1x	Modbus Master
	F12.2x	Reserved
	F12.3x	Continuous Read/Write for Discontinuous Addresses
F13 PID Control	F13.00~F13.06	PID Setting and Feedback
	F13.07~F13.24	PID Control
	F13.25~F13.28	PID Feedback Break
	F13.29~F13.33	Sleep
Simulated PLC for Multi-frequency	F14.00~F14.14	Multi-frequency Setting
	F14.15	PLC Operation Mode
	F14.16~F14.30	PLC Runtime
	F14.31~F14.45	PLC Direction and ACC/DEC Time
F15 Torque Control	F15.0x	Torque
	F15.1x~F15.2x	Torque Control
F16 Auxiliary Function 1	F16.0x	Counting and Timing
	F16.1x	Wobble Frequency
	F16.4x	Frequency Detection
	F16.5x-6x	Comparator
F25 Factory Calibration	F25.00~F25.11	AI1 Correction
	F25.12~F25.23	AI2 Correction
	F25.24~F25.35	AO1 Correction

	F25.36~F25.47	AO2 Correction
A00 Default Parameters	A00.00~A00.40	User-Defined Address
d00 Motor Parameters	d00.0x	Motor Control
d01 Motor 2 Parameters	d01.0x	Basic Parameters and Auto-tuning
	d01.1x	AM Parameters
	d01.2x~d01.5x	PM Parameters
	d01.6x-d01.7x	Tuning Extension
d02 Motor 2 Vector Control	d02.0x	ASR Control
	d02.1x	ACR and Torque Limit
	d02.2x	Torque Optimization
	d02.3x	Flux Optimization
	d02.4x	PM HF Injection
	d02.5x-d02.9x	VC Extension
d03 Motor 2 V/F Control	d03.0x	V/F Control
	d03.1x	User-defined V/F Curves
	d03.2x	VF-SPLIT Control
	d03.3x	V/F ECO Control
	d03.4x	V/F PM Anti-oscillation
	d03.5x	V/F PM Flux Control
	d03.6x-d03.8x	V/F PM Current Control
d04 Motor 3 Parameters	d04.0x	Basic Parameters and Auto-tuning
	d04.1x	AM Parameters
	d04.2x-d04.5x	PM Parameters
	d04.6x-d04.7x	Tuning Extension
d05 Motor 3 Vector Control	d05.0x	ASR Control
	d05.1x	ACR and Torque Limit
	d05.2x	Torque Optimization
	d05.3x	Flux Optimization
	d05.4x	PM HF Injection
	d05.5x-d05.9x	VC Extension
d06 Motor 3 V/F Control	d06.0x	V/F Control
	d06.1x	User-defined V/F Curves
	d06.2x	VF-SPLIT Control
	d06.3x	V/F ECO Control
	d06.4x	V/F PM Anti-oscillation
	d06.5x	V/F PM Flux Control
	d06.6x- d06.8x	V/F PM Current Control
d07 Motor 4 Parameter	d07.0x	Basic Parameters and Auto-tuning
	d07.1x	AM Parameters
	d07.2x- d07.5x	PM Parameters
	d07.6x-d07.7x	Tuning Extension
d08 Motor 4 Vector Control	d08.0x	ASR Control
	d08.1x	ACR and Torque Limit
	d08.2x	Torque Optimization
	d08.3x	Flux Optimization
	d08.4x	PM HF Injection
	d08.5x-d08.9x	VC Extension

d09 Motor 4 V/F Control	d09.0x	V/F Control
	d09.1x	User-defined V/F Curves
	d09.2x	VF-SPLIT Control
	d09.3x	V/F ECO Control
	d09.4x	V/F PM Anti-oscillation
	d09.5x	V/F PM Flux Control
	d09.6x- d09.8x	V/F PM Current Control
E00 IO Extension Input	E00.0x	Extension Parameters
	E00.1x- E00.3x	Extension DI Terminal
	E00.4x- E00.5x	Extension AI Terminal
	E00.5x- E00.7x	Extension PT Terminal
E01 IO Extension Output	E00.0x– E00.1x	Extension DO Terminal
	E01.3x	Extension AO3
E02 IO Encoder 1 Parameters	E02.0x	Encoder 1 Environment
	E02.1x	ABZ Parameters
	E02.2x	Resolver Encoder 1
	E02.3x	Sine/Cosine Encoder 1
E03 IO Encoder 2 Parameters	E03.0x	Encoder 2 Environment
	E03.1x	ABZ Parameters
	E03.2x	Resolver Encoder 2
	E03.3x	Sine/Cosine Encoder 2
E04 Extension 1 Common Parameters	E04.0x– E04.6x	Extension 1 Common Parameters
E05 Extension 2 Common Parameters	E04.0x– E04.6x	Extension 2 Common Parameters
E06 CAN/DP Parameters	E06.0x– E06.6x	CAN/DP Parameters
E07 Ethecat Extension	E07.0x– E07.7x	Ethecat Extension Parameters
E08 PLC Extension	E08.0x	Reserved
E10 Black Box	E10.0x– E10.2x	Black Box Parameters
L00 Free Function Block	L00.0x	Free Module 1
	L00.1x	Free Module 2
	L00.2x	Free Module 3
	L00.3x	Free Module 4
	L00.4x	Free Module 5
	L00.5x	Free Module 6
	L00.6x	Free Module 7
	L00.7x	Free Module 8
	L00.8x	Free Module 9
	L00.9x	Free Module 10
Connectors	U00.xx	Digital Status
	U01.xx	Function Status Indicator
	U03.xx	Frequency/Voltage/Current Typical
	U04.xx	Internal Parameter Word 1
	U05.xx	Internal Parameter Word 2
	U06.xx	Communication Connector
	U07.xx	Free Function Block
Monitoring Parameters	C00.xx	Basic monitoring
	C01.xx	Error Record 1

	C02.xx	Error Record 2
	C03.xx	Operation Monitoring
	C04.xx	System Monitoring

4.3 F00: Environmental Settings

F00.0x: Environment

Code (Address)	Name	Content	Default (Range)	Property
F00.00 (0x0000)	Parameter Access Level	V/F SVC FVC PMV/F PMSVC PMFVC Set the parameter access level according to access restriction. 0: Standard 1001: Expert 1002: Service	0 (0~1002)	STOP
F00.01 (0x0001)	Load Type	V/F SVC FVC PMV/F PMSVC PMFVC AC drives can be set for the specific purpose. 0: Heavy 1: Light	0 (0~1)	STOP
F00.02 (0x0002)	Parameter Protection	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1001: Rewriting prohibited except for F01.09 and this code 1002: Rewriting prohibited except for this code	0 (0~1002)	STOP
F00.03 (0x0003)	Initializatio n	V/F SVC FVC PMV/F PMSVC PMFVC Set the initialization mode for the drive. 0: OFF 1100: Partial parameter initialized 2200: Used parameters initialized (excluding error records) 3300: Clear error records 4401: Clear current runtime 4402: Clear current power-up time 4403: Clear recount total runtime 4404: Clear recount total power-up time 4405: Clear recount total power consumption	0x0000 (0x0000~0xF FFF)	STOP
F00.04 (0x0004)	Keypad Parameter Copy	V/F SVC FVC PMV/F PMSVC PMFVC 0: None 1100: Upload parameters to keypad 2200: Download parameters to drive 3300: Reserved	0x0000 (0x0000~0xF FFF)	STOP
F00.06 (0x0006)	LCD Keypad Language	V/F SVC FVC PMV/F PMSVC PMFVC 0: Chinese 1: English 2: Russian	0 (0~2)	STOP
F00.07 (0x0007)	Free Parameter 1	V/F SVC FVC PMV/F PMSVC PMFVC Used as the machine code or application mode code when multiple drives are used.	0 (0~65535)	STOP
F00.08 (0x0008)	Free Parameter 2	V/F SVC FVC PMV/F PMSVC PMFVC Used as the machine code or application mode code when multiple drives are used.	0 (0~65535)	STOP

F00.1x: System

Code (Address)	Name	Content	Default (Range)	Property
F00.10 (0x000A)	Macro	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Macro mode 0: General 1: Fan, pump 2: Machine tool 3: Punching machine 4: Wire drawing machine 5: Conveyor belt Tens-bit: Default parameter customization 0: OFF 1: ON Hundreds-bit: Connector 0: OFF 1: ON	0x0000 (0x0000~ 0x0115)	RUN
F00.11 (0x000B)	Default Multi-mot or Parameter	V/F SVC FVC PMV/F PMSVC PMFVC Set the multi-motor parameter switching flag. 0: OFF 1: ON	0 (0~1)	RUN
F00.13 (0x000D)	Extension Parameter Enable 1	V/F SVC FVC PMV/F PMSVC PMFVC Enable parameter group 1 of the expansion card Ones-bit: IO card Tens-bit: PLC card Hundreds-bit: PG card Thousands-bit: STO	0x1000 (0x0000~ 0x1111)	RUN
F00.14 (0x000E)	Extension Parameter Enable 2	V/F SVC FVC PMV/F PMSVC PMFVC Enable parameter group 2 of the expansion card Ones-bit: CANopen card Tens-bit: PN card Hundreds-bit: DP card Thousands-bit: Reserved	0x0000 (0x0000~ 0x1111)	RUN
F00.15 (0x000F)	Extension Parameter Enable 3	V/F SVC FVC PMV/F PMSVC PMFVC Enable parameter group 3 of the expansion card Ones-bit: Black box Tens-bit: Reserved Hundreds-bit: Reserved Thousands-bit: Reserved	0x0000 (0x0000~ 0x1111)	RUN

F00.2x: System Time

Code (Address)	Name	Content	Default (Range)	Property
F00.20 (0x0014)	Time-Year	V/F SVC FVC PMV/F PMSVC PMFVC Set the system year	0 (0~99)	RUN
F00.21 (0x0015)	Time-Mon th	V/F SVC FVC PMV/F PMSVC PMFVC Set the system month	0 (0~12)	RUN
F00.22 (0x0016)	Time-Day	V/F SVC FVC PMV/F PMSVC PMFVC Set the system day	0 (0~31)	RUN
F00.23 (0x0017)	Time-Hou r	V/F SVC FVC PMV/F PMSVC PMFVC Set the system day	0 (0~24)	RUN
F00.24 (0x0018)	Time-Min ute	V/F SVC FVC PMV/F PMSVC PMFVC Set the system minute	0 (0~59)	RUN
F00.25 (0x0019)	Time-Sec ond	V/F SVC FVC PMV/F PMSVC PMFVC Set the system second	0 (0~59)	RUN
F00.26 (0x001A)	Time Confirmati on	V/F SVC FVC PMV/F PMSVC PMFVC Confirm the system time setting	0 (0~1)	RUN

4.4 F01: Basic Command Parameters

F01.0x: Basic Commands

Code (Address)	Name	Content	Default (Range)	Property
F01.00 (0x0100)	Motor 1 Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor control mode. 0: AM-V/F 1: AM-SVC 2: AM-FVC 10: PM-V/F 11: PM-SVC 12: PM-FVC 20: VF-SPLIT	0 (0~20)	STOP
F01.01 (0x0101)	Command Giving Method	V/F SVC FVC PMV/F PMSVC PMFVC Select the method to send run/stop commands and the direction of operation to the drive. 0: Keypad 1: Terminal 2: RS485 communication 3: Reserved (0x31 group) Others: Connector (detailed in Chapter 7)	0 (0~65535)	RUN
F01.02 (0x0102)	Frequency Source A	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency giving source. 0: Keypad 1: Reserved 2: AI1 terminal 3: AI2 terminal 4: Reserved 5: PUL terminal 6: RS485 7: Extension (0x31 group) 8: PID 9: PLC 10: Dw/Dn terminal 11: Multi-frequency setting 12: Communication percentage 13: Customized Others: Connector (detailed in Chapter 7)	0 (0~65535)	RUN
F01.03 (0x0103)	Frequency Source A Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the gain of frequency giving source A.	100.0% (0.0%~ 500.0%)	STOP
F01.04 (0x0104)	Frequency Source B	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency giving source. The same as [F01.02]	2 (0~13)	STOP
F01.05 (0x0105)	Frequency Source B Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the gain of frequency giving source B.	100.0% (0.0%~ 500.0%)	STOP
F01.06 (0x0106)	Frequency Source B Reference	V/F SVC FVC PMV/F PMSVC PMFVC Set the reference for frequency giving source B. 0: Max. output frequency 1: Source A	0 (0~1)	RUN
F01.07 (0x0107)	Frequency Source Combina- tion	V/F SVC FVC PMV/F PMSVC PMFVC Set the combination method of source A and source B of the drive. 0: Source A 1: Source B 2: Source A + Source B 3: Source A - Source B	0 (0~5)	RUN

		4: Max. (A or B) 5: Min. (A or B)		
F01.08 (0x0108)	Frequency /Comman d Source Binding	V/F SVC FVC PMV/F PMSVC PMFVC Bind each command source to frequency sources when this parameter is valid. Ones-bit: Bind via keypad Tens-bit: Bind via terminal Hundreds-bit: Bind via communication Thousands-bit: Bind via extension cards 0: None 1: Keypad 2: Reserved 3: AI1 terminal 4: AI2 terminal 5: Reserved 6: PUL terminal 7: RS485 8: Reserved (0x31 group) 9: PID 10: PLC 11: UP/Dn terminal 12: Multi-frequency setting	0x0000 (0x0000~ 0xDDDD)	RUN
F01.09 (0x0109)	Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set and modify the frequency via keypad.	50.00Hz (0.00Hz~Upp er limit frequency)	RUN
F01.10 (0x010A)	Max. Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the maximum frequency for the drive.	50.00Hz (Upper limit frequency~ 599.00Hz)	STOP

F01.1x: Frequency Range

Code (Address)	Name	Content	Default (Range)	Property
F01.11 (0x010B)	Upper Limit Frequency Source	V/F SVC FVC PMV/F PMSVC PMFVC Select the upper limit frequency source. 0: Keypad 1: Reserved 2: AI1 terminal 3: AI2 terminal 4: Reserved 5: PUL terminal 6: RS485 7: Extension 8: Reserved 9: Reserved 10: Reserved Others: Connector (detailed in Chapter 7)	0 (0~65535)	RUN
F01.12 (0x010C)	Upper Limit Frequency	V/F SVC FVC PMV/F PMSVC PMFVC The upper limit frequency source when F01.11 is set to 0.	50.00Hz (Lower limit frequency~ max. frequency)	RUN
F01.13 (0x010D)	Lower Limit Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit to the given frequency.	0.00Hz (0.00Hz~Upp er limit frequency)	RUN

F01.14 (0x010E)	Frequency Command Resolution	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency command resolution. 0: 0.01Hz 1: 0.1Hz 2: 0.1r/min 3: 1r/min	0 (0~3)	STOP
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F01.2x~F01.3x: ACC/DEC Time

Code (Address)	Name	Content	Default (Range)	Property
F01.20 (0x0114)	ACC/DEC Time Reference Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the reference frequency to calculate the acceleration and deceleration time. 0: Max. frequency 1: 50Hz 2: Set frequency	0 (0~2)	STOP
F01.21 (0x0115)	ACC/DEC Time Unit	V/F SVC FVC PMV/F PMSVC PMFVC Set the decimal point of the parameters from F01.22 to F01.29. 0: 1s (0 decimal point) 1: 0.1s (1 decimal point) 2: 0.01s (2 decimal point)	2 (0~2)	STOP
F01.22 (0x0116)	ACC Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to accelerate from 0.00Hz to the reference frequency. 0.01s~650.00s (F01.21=2) 0.1s~6500.0s (F01.21=1) 1s~65000s (F01.21=0)	6.00s (0.01s~ 650.00s)	RUN
F01.23 (0x0117)	DEC Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to decelerate from the reference frequency to 0.00Hz. 0.01s~650.00s (F01.21=2) 0.1s~6500.0s (F01.21=1) 1s~65000s (F01.21=0)	6.00s (0.01s~ 650.00s)	RUN
F01.24 (0x0118)	ACC Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to accelerate from 0.00Hz to the reference frequency.	10.00s (0.01s~ 650.00s)	RUN
F01.25 (0x0119)	DEC Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to decelerate from the reference frequency to 0.00Hz.	10.00s (0.01s~ 650.00s)	RUN
F01.26 (0x011A)	ACC Time 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to accelerate from 0.00Hz to the reference frequency.	10.00s (0.01s~ 650.00s)	RUN
F01.27 (0x011B)	DEC Time 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to decelerate from the reference frequency to 0.00Hz.	10.00s (0.01s~ 650.00s)	RUN
F01.28 (0x011C)	ACC Time 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to accelerate from 0.00Hz to the reference frequency.	10.00s (0.01s~ 650.00s)	RUN
F01.29 (0x011D)	DEC Time 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the time required for the output frequency to decelerate from the reference frequency to 0.00Hz.	10.00s (0.01s~ 650.00s)	RUN
F01.30 (0x011E)	S-Curve ACC/DEC	V/F SVC FVC PMV/F PMSVC PMFVC Set S-curve acceleration/deceleration. 0: OFF 1: ON 2: Smoother S-curve	0 (0~2)	STOP
F01.31 (0x011F)	ACC S-Curve	V/F SVC FVC PMV/F PMSVC PMFVC Set the start time of s-curve acceleration.	0.20s (0.00s~10.00s)	RUN

	Start Time			
F01.32 (0x0120)	ACC S-Curve End Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the end time of s-curve acceleration.	0.20s (0.00s~10.00s)	RUN
F01.33 (0x0121)	DEC S-Curve Start Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the start time of s-curve deceleration.	0.20s (0.00s~10.00s)	RUN
F01.34 (0x0122)	DEC S-Curve End Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the end time of s-curve deceleration.	0.20s (0.00s~10.00s)	RUN
F01.35 (0x0123)	ACC Time 1/2 Shift Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency between acceleration time 1 and 2.	0.00Hz (0.00Hz~Max. frequency)	RUN

F01.4x: PWM

Code (Address)	Name	Content	Default (Range)	Property
F01.40 (0x0128)	Carrier Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the switching frequency of the drive's IGBT module.	5.5kHz (1.0kHz~ 16.0kHz)	RUN
F01.41 (0x0129)	PWM Mode	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Carrier-temperature relationship 0: Irrelevant 1: Relevant Tens-bit: Carrier-output frequency relationship 0: Irrelevant 1: Relevant 2: Reserved 3: Relevant, and carrier switching without slow transition 4: Set output carrier frequency, unrestricted Hundreds-bit: Random PWM enable 0: OFF 1: ON under V/F control 2: Reserved 3: Valid in vector mode Thousands-bit: PWM mode 0: Three-phase only 1: Automatic shift between two-phase and three-phase	0x1111 (0x0000~ 0x1341)	RUN
F01.42 (0x012A)	PWM Mode 1	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Overmodulation 0: OFF 1: ON Tens-bit: Double-sampling double-update 0: ON 1: OFF Hundreds-bit: Deadtime compensation 0: OFF 1: ON 2: ON together with advance angle compensation (valid under VC)	0x9101 (0x0000~ 0XF111)	RUN
F01.43 (0x012B)	Deadtime Compensation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the deadtime compensation gain.	306 (0~512)	RUN
F01.44 (0x012C)	PWM Charge Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the PWM charge time.	15ms (0ms~ 65535ms)	STOP

F01.45 (0x012D)	PWM Protection Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the bootstrap protection time	30ms (0ms~ 60000ms)	STOP
F01.46 (0x012E)	Random PWM	V/F SVC FVC PMV/F PMSVC PMFVC The larger this setting, the greater the carrier fluctuation will be when random PWM is valid.	0 (0~20)	RUN
F01.47 (0x012F)	PWM Max. Carrier Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the PWM maximum carrier frequency.	0.0 (0.0~16.0)	READ
F01.48 (0x0130)	Discontin uous PWM OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the discontinuous PWM OFF frequency.	0.0 (0.0~100.0)	RUN
F01.49 (0x0131)	PWM Sampling Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the PWM sampling delay time.	6.0 (0~10.0)	RUN
F01.50 (0x0132)	Deadtime Linear Compensa tion	V/F SVC FVC PMV/F PMSVC PMFVC Enable the deadtime linear compensation.	0 (0~60000)	RUN
F01.51 (0x0133)	PWM IGBT Voltage Drop	V/F SVC FVC PMV/F PMSVC PMFVC Set the PWM IGBT voltage drop.	0 (0~60000)	RUN
F01.52 (0x0134)	PWM IGBT Voltage Drop 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the PWM IGBT voltage drop 2.	0 (0~60000)	RUN
F01.53 (0x0135)	PWM Deadtime Voltage Drop	V/F SVC FVC PMV/F PMSVC PMFVC Set the PWM deadtime voltage drop.	0 (0~60000)	RUN

4.5 F02: Motor 1

F02.0x: Basic Parameters and Auto-tuning

Code (Address)	Name	Content	Default (Range)	Property
F02.00 (0x0200)	Type	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor type. 0: Asynchronous motor (AM) 1: permanent magnet synchronous motor (PM)	0 (0~1)	READ
F02.01 (0x0201)	Pole No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor pole number.	4 (2~98)	STOP
F02.02 (0x0202)	Rated Power	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated power of the motor.	Up to model (0.1kW~ 1000.0kW)	STOP
F02.03 (0x0203)	Rated Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated frequency of the motor.	Up to model (0.01Hz~Max. frequency)	STOP
F02.04 (0x0204)	Rated Speed	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated speed of the motor.	Up to model (0rpm~ 65000rpm)	STOP
F02.05 (0x0205)	Rated Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated voltage of the motor.	Up to model (0V~2000V)	STOP
F02.06	Rated	V/F SVC FVC PMV/F PMSVC PMFVC	Up to model	STOP

(0x0206)	Current	Set the rated current of the motor.	(0.1A ~ 3000.0A)	
F02.07 (0x0207)	Auto-tuning	V/F SVC FVC PMV/F PMSVC PMFVC After the parameter auto-tuning is finished, [F02.07] will be set to "0" automatically. 0: None 1: Rotary auto-tuning 2: Static auto-tuning 3: Stator resistance auto-tuning 6: Rotary auto-tuning 2 7: Inertia auto-tuning 9: PM inductance saturation coefficient auto-tuning	0 (0~9)	STOP
F02.08 (0x0208)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor auto-tuning flag.	0x0000 (0x0000~0xFFFF)	READ
F02.09 (0x0209)	ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor ID.	0 (0~65535)	STOP

Note

When F02.00 [Type] is set to a synchronous motor, F02.04 [Rated Speed] is calculated from F02.01 [Pole No.] and F02.03 [Rated Frequency]. Please set the corresponding parameters correctly. The calculation formula is: F02.04 [Rated Speed] = 60 * F02.03 [Rated Frequency] / (F02.01 [Pole No.] / 2).

F02.1x: AM Parameters

Code (Address)	Name	Content	Default (Range)	Property
F02.10 (0x020A)	No-load Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the no-load current for asynchronous motors.	Up to model (0.1A~3000.0A)	STOP
F02.11 (0x020B)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for asynchronous motors.	Up to model (1mΩ~65535mΩ)	STOP
F02.12 (0x020C)	Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the rotor resistance for asynchronous motors.	Up to model (1mΩ~65535mΩ)	STOP
F02.13 (0x020D)	Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator leakage inductance for asynchronous motors.	Up to model (1mH~6553.5mH)	STOP
F02.14 (0x020E)	Stator Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator inductance for asynchronous motors.	Up to model (1mH~65535mH)	STOP
F02.15 (0x020F)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance.	Up to model (0.01%~655.35%)	READ
F02.16 (0x0210)	Per-unit Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit rotor resistance.	Up to model (0.01%~655.35%)	READ
F02.17 (0x0211)	Per-unit Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator leakage inductance.	Up to model (0.01%~655.35%)	READ
F02.18 (0x0212)	Per-unit Stator Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator inductance.	Up to model (0.1%~6553.5%)	READ

F02.19 (0x0213)	Parameter Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the parameter range.	0x0000 (0x0000~ 0xFFFF)	STOP
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F02.2x: PM Parameters

Code (Address)	Name	Content	Default (Range)	Property
F02.20 (0x0214)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for permanent magnet synchronous motors.	Up to model (1mΩ~ 65535mΩ)	STOP
F02.21 (0x0215) STOP	D-axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~ 65535mH)	STOP
F02.22 (0x0216) STOP	Q-axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~ 65535mH)	STOP
F02.23 (0x0217) STOP	Back Emf	V/F SVC FVC PMV/F PMSVC PMFVC Set the back emf for permanent magnet synchronous motors. Only recognized in dynamic auto-tuning.	Up to model (0V~1500V)	STOP
F02.24 (0x0218)	Encoder Angle	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder installation angle for permanent magnet synchronous motors.	Up to model (0.0°~360.0°)	RUN
F02.25 (0x0219)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
F02.26 (0x021A)	Per-unit D-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit d-axis inductance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
F02.27 (0x021B)	Per-unit Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit d-axis inductance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
F02.28 (0x021C)	Pulse Width Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the pulse width coefficient for permanent magnet synchronous motors.	Up to model (0.01~655.35)	STOP
F02.29 (0x021D)	Actual Value Unit	V/F SVC FVC PMV/F PMSVC PMFVC Select the unit for actual value.	Up to model (0x0000~ 0x3322)	STOP
F02.30 (0x021E)	Frequency Decimal Bit	V/F SVC FVC PMV/F PMSVC PMFVC Display the decimal bit of motor frequency.	0 (0~3)	STOP

F02.4x~F02.5x: PM D/Q-Axis Inductance Saturation Coefficient

Code (Address)	Name	Content	Default (Range)	Property
F02.40 (0x0228)	D-Axis Inductance Saturation Coefficient 0	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 0 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.41 (0x0229)	D-Axis Inductance Saturation Coefficient 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.42 (0x022A)	D-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.43 (0x022B)	D-Axis Inductance Saturation Coefficient 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.44 (0x022C)	D-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.45 (0x022D)	D-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.46 (0x022E)	D-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.47 (0x022F)	D-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.48 (0x0230)	D-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.49 (0x0231)	D-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.50 (0x0232)	Q-Axis Inductance Saturation Coefficient 0	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 0 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.51 (0x0233)	Q-Axis Inductance Saturation Coefficient 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.52 (0x0234)	Q-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
F02.53 (0x0235)	Q-Axis Inductance Saturation	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN

	Coefficient 3			
F02.54 (0x0236)	Q-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
F02.55 (0x0237)	Q-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
F02.56 (0x0238)	Q-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
F02.57 (0x0239)	Q-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
F02.58 (0x023A)	Q-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
F02.59 (0x023B)	Q-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN

F02.6x~ F02.7x: Tuning Extension

Code (Address)	Name	Content	Default (Range)	Property
F02.60 (0x023C)	Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Tuning only without updating > 1: Tuning and updating	0x0000 (0x0000~0xFF FF)	STOP
F02.61 (0x023D)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance tuning coefficient 1.	0x0000 (0x0000~0xFF FF)	RUN
F02.62 (0x023E)	Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Auto-tuning after power-up 2: Auto-tuning after start 3: Auto-tuning during operation	0 (0~3)	RUN
F02.63 (0x023F)	Tuning Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor tuning rate.	0 (0~1000)	RUN
F02.64 (0x0240)	Tuning Increment	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor online tuning increment.	0.00% (0.00%~20.00%)	RUN
F02.65 (0x0241)	Mean Bus Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the mean bus voltage for resistor online tuning.	0 (0~65535)	RUN
F02.66 (0x0242)	Stabilizing Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the stabilizing time for resistor online tuning.	0 (0~65535)	RUN
F02.67 (0x0243)	V-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the V-phase current gain.	1024 (1024~2048)	RUN
F02.68 (0x0244)	W-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the W-phase current gain.	1024 (1024~2048)	RUN
F02.69 (0x0245)	Electric Angle Compensation	V/F SVC FVC PMV/F PMSVC PMFVC Set the electric angle compensation.	90.0 (90.0~6553.5)	RUN

F02.70 (0x0246)	Deadtime Compensation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the deadtime compensation gain.	0 (0~65535)	RUN
F02.71 (0x0247)	Actual Deadtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the actual value of deadtime.	0.00 (0~655.35)	RUN
F02.72 (0x0248)	PM Pole Search	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: SVC Tens-bit: FVC 0: OFF 1: ON 2: ON during the first power-up	0x0010 (0000~F223)	STOP
F02.73 (0x0249)	Pole Search Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the value of pole search current.	0.0 (0.0~6553.5)	STOP
F02.74 (0x024A)	Pole Search Current Feedback	V/F SVC FVC PMV/F PMSVC PMFVC Record the value of pole search current feedback.	0.0 (0.0~6553.5)	STOP
F02.75 (0x024B)	PM Inductance Tuning Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning frequency for permanent magnet synchronous motors.	300.00Hz (0.00Hz~600.00Hz)	STOP
F02.76 (0x024C)	PM Inductance Tuning Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning current for permanent magnet synchronous motors.	0.0 (0.0~180.0)	STOP
F02.77 (0x024D)	LC Filter Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter inductance.	0.000 (0.000~65.000)	STOP
F02.78 (0x024E)	LC Filter Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter resistance.	0.0 (0.0~6500.0)	STOP

4.6 F03: Vector Control

F03.0x: ASR (Automatic Speed Regulator) Control

Code (Address)	Name	Content	Default (Range)	Property
F03.00 (0x0300)	Rigidity Level	V/F SVC FVC PMV/F PMSVC PMFVC Set the rigidity level, the higher the level, the better the speed rigidity.	32 (0~128)	RUN
F03.02 (0x0302)	Proportional Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at high speed.	10.00 (0.01~100.00)	RUN
F03.03 (0x0303)	Integral Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR integral time at high speed.	0.100s (0.000s~6.000s)	RUN
F03.04 (0x0304)	Filter Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at high speed.	0.0ms (0.0ms~100.0ms)	RUN
F03.05 (0x0305)	Shift Frequency 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at high speed.	0.00Hz (0.00Hz~Max. frequency)	RUN
F03.06 (0x0306)	Proportional Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at low speed.	10.00 (0.01~100.00)	RUN
F03.07	Integral Time	V/F SVC FVC PMV/F PMSVC PMFVC	0.100s	RUN

(0x0307)	2	Set the ASR integral time at low speed.	(0.000s~6.000s)	
F03.08 (0x0308)	Filter Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at low speed.	0.0ms (0.0ms~100.0ms)	RUN
F03.09 (0x0309)	Shift Frequency 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at low speed.	0.00Hz (0.00Hz~F03.05)	RUN

F03.1x: ACR (Automatic Current Regulator) and Torque Limit

Code (Address)	Name	Content	Default (Range)	Property
F03.10 (0x030A)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis proportional gain.	1.000 (0.001~4.000)	RUN
F03.11 (0x030B)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis integral gain.	1.000 (0.001~4.000)	RUN
F03.12 (0x030C)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis proportional gain.	1.000 (0.001~4.000)	RUN
F03.13 (0x030D)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis integral gain.	1.000 (0.001~4.000)	RUN
F03.14 (0x030E)	Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Voltage feedforward control 0: OFF 1: ON Tens-bit: Current prediction control 0: OFF 1: ON Hundreds-bit: Current loop gain 0: OFF 1: ON	0x0000 (0x0000~ 0x0111)	RUN
F03.15 (0x030F)	Motoring Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit when motor is running with load.	250.0% (0.0%~400.0%)	RUN
F03.16 (0x0600)	Generating Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit in power generation mode.	250.0% (0.0%~400.0%)	RUN
F03.17 (0x0311)	Motoring Torque Limit Source	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 communication (0x3014) 7: Reserved (0x31 group)	0 (0~7)	RUN
F03.18 (0x0312)	Regenerating Torque Limit Source	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 communication (0x3015) 7: Reserved (0x31 group)	0 (0~7)	RUN
F03.19 (0x0313)	Torque Limit View	V/F SVC FVC PMV/F PMSVC PMFVC View the given torque limits.	0 (0~1)	RUN

		0: C00.06 display the torque limit value during motoring 1: C00.06 display the torque limit value during generating		
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F03.2x: Torque Optimization

Code (Address)	Name	Content	Default (Range)	Property
F03.20 (0x0314)	PM LF Dragging Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	20.0% (0.0%~50.0%)	RUN
F03.21 (0x0315)	PM HF Dragging Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	10.0% (0.0%~50.0%)	RUN
F03.22 (0x0316)	PM Dragging Frequency	V/F SVC FVC PMV/F PMSVC PMFVC The set value 100.0% corresponds to F01.10 [Max. Frequency].	10.0% (0.0%~100.0%)	RUN
F03.23 (0x0317)	AM Slip Compensation	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation for asynchronous motors.	100.0% (0.0%~250.0%)	RUN
F03.24 (0x0318)	Initial Starting Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the initial starting torque.	0.0% (0.0%~250.0%)	RUN
F03.25 (0x0319)	AFR Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control gain.	0.0 (0.0~1000.0)	RUN
F03.26 (0x031A)	AFR Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	0.0 (0.0~1000.0)	RUN
F03.27 (0x031B)	AFR Reference Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux given gain.	0.0 (0.0~200.0)	RUN
F03.28 (0x031C)	Torque Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque range.	0x0000 (0x0000~ 0xFFFF)	RUN
F03.29 (0x031D)	Flux Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux range.	0.0% (0.0%~150.0%)	RUN

F03.3x: Flux Optimization

Code (Address)	Name	Content	Default (Range)	Property
F03.30 (0x031E)	Field-weakening Feed-forward Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the feed-forward coefficient under field weakening control.	10.0% (0.0%~500.0%)	RUN
F03.31 (0x031F)	Field-weakening Control Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the control gain under field weakening control.	10.0% (0.0%~500.0%)	RUN
F03.32 (0x0320)	Field-weakening Current Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the current upper limit under field weakening control.	60.0% (0.0%~250.0%)	RUN
F03.33 (0x0321)	Field-weakening Voltage Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage coefficient under field weakening control.	97.0% (0.0%~120.0%)	RUN
F03.34 (0x0322)	Output Power Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the output power range.	250.0% (0.0%~400.0%)	RUN
F03.35 (0x0323)	Over-excitation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation gain.	100.0% (0.0%~500.0%)	RUN
F03.36 (0x0324)	Over-excitation Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation range.	100.0% (0.0%~250.0%)	RUN
F03.37 (0x0325)	ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	RUN
F03.38 (0x0326)	Min ECO Excitation	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit of energy-saving excitation.	50.0% (0.0%~80.0%)	RUN
F03.39 (0x0327)	ECO Filter Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the filter coefficient of energy-saving running.	0.010s (0.000s~6.000s)	RUN

F03.4x: PM HF Injection

Code (Address)	Name	Content	Default (Range)	Property
F03.40 (0x0328)	Mode	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, please select 0 with SPM and 0~5 with IPM. 0: OFF 1~5: ON, the greater the value, the higher the injection frequency.	0 (0~5)	STOP
F03.41 (0x0329)	Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the injection voltage range (relative to rated voltage). It is the result of auto-tuning, so there's no need to modify it.	10.0% (0.0%~100.0%)	RUN
F03.42 (0x032A)	OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency injection range (relative to motor rated frequency). It is valid when the motor speed is lower than this value.	0.0% (0.0%~100.0%)	RUN
F03.43 (0x032B)	Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated gain for high-frequency injection speed.	500 (0~65535)	RUN
F03.44 (0x032C)	Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated integral gain for high-frequency injection speed.	100 (0~65535)	RUN
F03.45 (0x032D)	Debugging	V/F SVC FVC PMV/F PMSVC PMFVC Debug the high-frequency injection.	0 (0~65535)	RUN

F03.46 (0x032E)	Carrier	V/F SVC FVC PMV/F PMSVC PMFVC Set the HF injection carrier.	0 (0~10)	RUN
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F03.5x-03.8x: Extension

Code (Address)	Name	Content	Default (Range)	Property
F03.50 (0x0332)	Max. ACR Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the position compensation under speed control to realize zero servo or raise system rigidity.	50.0 (0.0~100.0)	STOP
F03.51 (0x0333)	Min. Current Error	V/F SVC FVC PMV/F PMSVC PMFVC It is used for debugging.	0.0 (0.0~102.4)	RUN
F03.52 (0x0334)	IF Control Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the current under IF control, where 100% equals the motor's rated current.	60.0% (0.0%~400.0%)	RUN
F03.53 (0x0335)	IF Control Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency under IF control.	0.0% (0.0%~100.0%)	RUN
F03.55 (0x0337)	SPLL Fly Track Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the proportional gain for SPLL fly track.	1.00 (0~655.35)	RUN
F03.56 (0x0338)	SPLL Fly Track Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the integral gain for SPLL fly track.	5.00 (0.00~655.35)	RUN
F03.57 (0x0339)	Fly Track Excitation Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the excitation time for fly track.	2 (0~65535)	RUN
F03.58 (0x033A)	Fly Track Excitation Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the excitation frequency for fly track.	0 (0~65535)	RUN
F03.59 (0x033B)	Fly Track Excitation Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the excitation time 2 for fly track.	200 (0~65535)	RUN
F03.60 (0x033C)	PM MTPA Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA gain for permanent magnet synchronous motors.	100.0 (0.0~400.0)	RUN
F03.61 (0x033D)	PM MTPA Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA filter time for permanent magnet synchronous motors.	1.0 (0.0~100.0)	RUN
F03.62 (0x033E)	PM Saliency Rate Regulation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the saliency rate regulation gain for permanent magnet synchronous motors.	500% (0%~65535%)	RUN
F03.63 (0x033E)	PM Step Loss Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the step loss detection time for permanent magnet synchronous motors.	0 (0.000~65.535)	RUN
F03.64 (0x0340)	PM Step Loss Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the step loss detection coefficient for permanent magnet synchronous motors.	0 (0.0~6553.5)	RUN
F03.65 (0x0341)	Regenerative Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed.	0.0% (0.0%~400.0%)	RUN
F03.66 (0x0342)	LS Regenerative Torque Limit Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed.	6.00% (0.00%~30.00 %)	RUN
F03.70 (0x0346)	Estimated Open Loop Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated open loop gain 1.	1.000 (0.000~8.000)	RUN
F03.71	Estimated	V/F SVC FVC PMV/F PMSVC PMFVC	1.000	RUN

(0x0347)	Open Loop Gain 2	Set the estimated open loop gain 2.	(0.000~8.000)	
F03.72 (0x0348)	Generating Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the generating gain.	30.0% (0.0%~6553.5%)	RUN
F03.73 (0x0349)	SPLL Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 1.	3.000 (0.000~65.535)	RUN
F03.74 (0x034A)	SPLL Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 2.	1.000 (0.000~65.535)	RUN
F03.75 (0x034B)	Angle Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle error limit.	10.0 (0.0~100.0)	RUN
F03.76 (0x034C)	Angle Hysteresis Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle hysteresis error limit.	10.0 (0.0~100.0)	RUN
F03.77 (0x034D)	Direct Flux Vector Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Optimize the direct flux vector mode.	0 (0~65535)	RUN
F03.78 (0x034E)	Min. Direct Flux Vector Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for direct flux vector mode.	1.0% (0.0%~6000.0%)	RUN
F03.79 (0x034F)	Min. Flux Closed Loop Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for flux closed loop mode.	10.0% (0.0%~6000.0%)	RUN
F03.80 (0x0350)	Estimated Direct Flux Vector Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated gain under direct flux vector mode.	1000 (0~65535)	RUN
F03.81 (0x0351)	AFO Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO1 control gain.	1.000 (0.000~65.535)	RUN
F03.82 (0x0352)	AFO Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO2 control gain.	1.000 (0.000~65.535)	RUN
F03.83 (0x0353)	AFO Gain 3	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO3 control gain.	1.000 (0.000~65.535)	RUN
F03.84 (0x0354)	AFO Gain 4	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO4 control gain.	1.000 (0.000~65.535)	RUN

4.7 F04: V/F Control

F04.0x: V/F Control

Code (Address)	Name	Content	Default (Range)	Property
F04.00 (0x0400)	V/F Curve	V/F SVC FVC PMV/F PMSVC PMFVC Select the type of V/F curve according to different load characteristics. 0: Linear V/F curve 1~9: 1.1-1.9 power V/F curves respectively 10: Square V/F curve 11: Custom V/F curve	0 (0~11)	STOP
F04.01 (0x0401)	Torque Boost	V/F SVC FVC PMV/F PMSVC PMFVC 0.0%: Automatic torque boost 0.1%~30.0%: Manual torque boost	Up to model (0.0%~30.0%)	RUN
F04.02 (0x0402)	Torque Boost OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the range of the torque boost. The torque boost will be cut off when the output frequency exceeds this value.	100.0% (0.0%~100.0%)	RUN
F04.03 (0x0403)	Slip Compensation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation gain.	0.0% (0.0%~200.0%)	RUN
F04.04	Slip	V/F SVC FVC PMV/F PMSVC PMFVC	100.0%	RUN

(0x0404)	Compensation Range	Set the slip compensation range.	(0.0%~300.0%)	
F04.05 (0x0405)	Slip Compensation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Enter the parameters on the motor's nameplate correctly to implement parameter tuning for best effect.	0.200s (0.000s~6.000s)	RUN
F04.06 (0x0406)	Anti-oscillation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Adjust this value to suppress low-frequency resonance, but it should not be too large or it will cause instability.	100.0% (0.0%~900.0%)	RUN
F04.07 (0x0407)	Anti-oscillation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation filter time.	1.0s (0.0s~100.0s)	RUN
F04.08 (0x0408)	Output Voltage Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage, where 100% equals the motor's rated voltage.	100.0% (25.0%~120.0%)	STOP
F04.09 (0x0409)	Min. Overcurrent Suppression Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the overcurrent suppression lower limit frequency.	0.00 (0.00~50.00)	RUN

F04.1x: User-defined V/F Curve

Code (Address)	Name	Content	Default (Range)	Property
F04.10 (0x040A)	V1 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V1 (user-defined voltage).	3.0% (0.0%~100.0%)	STOP
F04.11 (0x040B)	F1 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F1 (user-defined frequency).	1.00Hz (0.00Hz~Max. frequency)	STOP
F04.12 (0x040C)	V2 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V2 (user-defined voltage).	28.0% (0.0%~100.0%)	STOP
F04.13 (0x040D)	F2 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F2 (user-defined frequency).	10.00Hz (0.00Hz~Max. frequency)	STOP
F04.14 (0x040E)	V3 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V3 (user-defined voltage).	55.0% (0.0%~100.0%)	STOP
F04.15 (0x040F)	F3 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F3 (user-defined frequency).	25.00Hz (0.00Hz~Max. frequency)	STOP
F04.16 (0x0410)	V4 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V4 (user-defined voltage).	78.0% (0.0%~100.0%)	STOP
F04.17 (0x0411)	F4 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F4 (user-defined frequency).	37.50Hz (0.00Hz~Max. frequency)	STOP
F04.18 (0x0412)	V5 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V5 (user-defined voltage).	100.0% (0.0%~100.0%)	STOP
F04.19 (0x0413)	F5 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F5 (user-defined frequency).	50.00Hz (0.00Hz~Max. frequency)	STOP

F04.2x: VF-SPLIT Control

Code	Name	Content	Default	Property
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(Address)			(Range)	
F04.20 (0x0414)	Voltage Source A	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value Others: Connector (detailed in Chapter 7)	0x0000 (0x0000~ 0xFFFF)	RUN
F04.21 (0x0415)	Voltage Source B	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value Others: Connector (detailed in Chapter 7)	0x0000 (0x0000~ 0xFFFF)	RUN
F04.22 (0x0416)	Voltage Source Combination	V/F SVC FVC PMV/F PMSVC PMFVC 0: Source A 1: Source B 2: Source A+Source B 3: Source A-Source B 4: Max. (A or B) 5: Min. (A or B)	0x0000 (0x0000~ 0xFFFF)	RUN
F04.23 (0x0417)	Output Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage under V/F-SPLIT control, where 100% equals the motor's rated voltage.	0.00% (0.00%~ 110.00%)	RUN
F04.24 (0x0418)	Voltage ACC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration time under V/F-SPLIT control.	10.00s (0.00s~ 100.00s)	RUN
F04.25 (0x0419)	Voltage DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage deceleration time under V/F-SPLIT control.	10.00s (0.00s~ 100.00s)	RUN
F04.26 (0x041A)	Stop Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the stop mode under V/F-SPLIT control. 0: No relationship between ACC/DEC of output voltage and frequency 1: Output frequency drops after the output voltage drops to 0V.	0 (0~1)	RUN
F04.27 (0x041B)	Voltage Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage value under V/F-SPLIT control.	0.00V (0.00V~ 600.00V)	RUN

F04.3x: V/F ECO Control

Code (Address)	Name	Content	Default (Range)	Property
F04.30 (0x041E)	V/F ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	STOP
F04.31 (0x041F)	Min. Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower frequency limit of the ECO mode.	15.0Hz (0.0Hz~50.0Hz)	STOP
F04.32 (0x0420)	Min. Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower voltage limit of the ECO mode.	50.0% (20.0%~100.0%)	STOP
F04.33 (0x0421)	DEC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage declaration rate in the ECO mode.	0.010V/ms (0.000V/ms~0.2000V/ms)	RUN
F04.34 (0x0422)	ACC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration rate in the ECO mode.	0.200V/ms (0.000V/ms~2.000V/ms)	RUN
F04.35 (0x0423)	Over-excitati on Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC It is valid when tens-bit of F10.11 is not zero; at the same output frequency, the output voltage increases with increasing bus voltage.	64 (0~200)	RUN

F04.4x: V/F PM Anti-oscillation

Code (Address)	Name	Content	Default (Range)	Property
F04.40 (0x0428)	Damper Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain.	5.0% (0%~400.0%)	RUN
F04.41 (0x0429)	Damper Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper filter time.	0s (0s~100.0s)	RUN
F04.42 (0x042A)	Damper Output Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper output range.	5.0% (0%~100.0%)	RUN
F04.43 (0x042B)	Active Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the active current filter bandwidth.	5.000Hz (0Hz~65535Hz)	RUN
F04.44 (0x042C)	Damper Weakening Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening coefficient.	20.0% (0%~100.0%)	RUN
F04.45 (0x042D)	Damper Weakening Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening frequency.	20.0% (0%~100.0%)	RUN
F04.46 (0x042E)	Anti-oscillati on Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation start frequency.	64% (0%~F4.79%)	RUN

F04.5x: V/F PM Flux Control

Code (Address)	Name	Content	Default (Range)	Property
F04.50 (0x0432)	Setting	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control.	30.0% (0%~500.0%)	RUN
F04.51 (0x0433)	Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control proportional gain.	1000 (0~9999)	RUN
F04.52 (0x0434)	Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	1000 (0~9999)	RUN

F04.53 (0x0435)	Controller Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller frequency.	5.0% (0%~100.0%)	RUN
F04.54 (0x0436)	Controller Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller time.	7.0s (0s~100.0s)	RUN

F04.6x: V/F PM Current Control

Code (Address)	Name	Content	Default (Range)	Property
F04.60 (0x043C)	D-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis current gain.	0.500 (0~10.000)	RUN
F04.61 (0x043D)	Q-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis current gain.	0.500 (0~10.000)	RUN
F04.62 (0x043E)	D-Axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis feedforward gain.	0 (0~10.000)	RUN
F04.63 (0x043F)	Q-Axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis feedforward gain.	1.000 (0~10.000)	RUN
F04.64 (0x0440)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control proportional gain.	50.0% (0%~200.0%)	RUN
F04.65 (0x0441)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control integral gain.	80.0% (0%~1000.0%)	RUN
F04.66 (0x0442)	D-Axis LF Current Proportional Gain Boost	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis low-frequency current proportional gain boost.	0% (0%~100.0%)	RUN
F04.67 (0x0443)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control proportional gain.	100.0% (0%~6553.5%)	RUN
F04.68 (0x0444)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control integral gain.	100.0% (0%~6553.5%)	RUN
F04.69 (0x0445)	D-Axis Weakening Integral	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis integral weakening coefficient.	1000 (0~1024)	RUN
F04.70 (0x0446)	D-Axis Proportional Gain Shift Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the start frequency for D-axis proportional gain shifting.	80.0% (0%~6553.5%)	STOP
F04.71 (F04.47)	D-Axis Proportional Gain Shift OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the OFF frequency for D-axis proportional gain shifting.	120.0% (0%~6553.5%)	RUN
F04.72 (0x0448)	HF D-Axis Current Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency D-axis current control proportional gain.	100.0% (0%~200.0%)	RUN
F04.73 (0x0449)	D-Axis Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the D-axis current low-pass filter.	11.000Hz (0Hz~65.535Hz)	RUN
F04.74 (0x044A)	Q-Axis Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the Q-axis current low-pass filter.	11.000Hz (0Hz~65.535Hz)	RUN
F04.75 (0x044B)	D-Axis Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the given D-axis filter bandwidth.	1.000Hz (0Hz~65.535Hz)	RUN

F04.76 (0x044C)	Light-load Current Iq Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the light-load current Iq threshold.	20.0% (0%~50.0%)	RUN
F04.77 (0x044D)	Current Weakening Amplitude	V/F SVC FVC PMV/F PMSVC PMFVC Set the current Id weakening amplitude.	50.0% (0%~100.0%)	RUN
F04.78 (0x044E)	Efficient Current Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the efficient current Id value.	0% (0%~50.0%)	RUN
F04.79 (0x044F)	Shift Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency.	10.0% (0%~50.0%)	RUN
F04.80 (0x0450)	Shift Frequency Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency range.	0% (0%~50.0%)	RUN
F04.81 (0x0451)	Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the control mode for the PM voltage vector algorithm.	0x1021 (0x0000~ 0x1121)	RUN
F04.82 (0x0452)	LF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the low-frequency dragging current.	100.0% (0%~200.0%)	RUN
F04.83 (0x0453)	LF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for low-frequency dragging current.	10.0% (0%~100.0%)	RUN
F04.84 (0x0454)	HF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency dragging current.	10.0% (0%~200.0%)	RUN
F04.85 (0x0455)	HF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for high-frequency dragging current.	15.0% (0%~100.0%)	RUN

4.8 F05: DI Terminal

F05.0x: Terminal Function

Code (Address)	Name	Content	Default (Range)	Property
F05.00 (0x0500)	X1 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	1 (0~95)	STOP
F05.01 (0x0501)	X2 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	2 (0~95)	STOP
F05.02 (0x0502)	X3 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	4 (0~95)	STOP
F05.03 (0x0503)	X4 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	8 (0~95)	STOP
F05.04 (0x0504)	X5 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	6 (0~95)	STOP
F05.05 (0x0505)	X6 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	7 (0~95)	STOP
F05.08 (0x0508)	X1~X4 Characteristics	V/F SVC FVC PMV/F PMSVC PMFVC 0: ON when closed 1: ON when open Ones-bit: X1 terminal Tens-bit: X2 terminal Hundreds-bit: X3 terminal Thousands-bit: X4 terminal	0x0000 (0x0000~ 0x1111)	RUN
F05.09 (0x0509)	X5~X6 Characteristics	V/F SVC FVC PMV/F PMSVC PMFVC 0: ON when closed 1: ON when open Ones-bit: X5 terminal Tens-bit: X6 terminal	0x0000 (0x0000~ 0x0011)	RUN

F05.1x-F05.2x: Terminal Operation Control

Code (Address)	Name	Content	Default (Range)	Property
F05.10 (0x050A)	X1 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X1 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F05.11 (0x050B)	X1 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X1 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F05.12 (0x050C)	X2 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X2 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F05.13 (0x050D)	X2 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X2 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F05.14 (0x050E)	X3 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X3 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F05.15 (0x050F)	X3 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X3 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F05.16 (0x0510)	X4 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X4 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F05.17 (0x0511)	X4 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X4 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F05.18 (0x0512)	X5 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X5 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F05.19 (0x0513)	X5 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X5 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F05.20 (0x0514)	X6 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X6 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F05.21 (0x0515)	X6 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X6 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F05.26 (0x051A)	Terminal Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Two-wire 1 1: Two-wire 2 2: Three-wire 1 3: Three-wire 2	0 (0~3)	STOP
F05.27 (0x051B)	Terminal UP/DW	V/F SVC FVC PMV/F PMSVC PMFVC 0: Power-down save ON 1: Power-down save OFF 2: Modifiable during operation, cleared after shutdown	0 (0~2)	STOP
F05.28 (0x051C)	Frequency ACC/DEC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the terminal UP/DW controlled frequency increase/decrease rate.	0.50Hz/s (0.01Hz/s~ 50.00Hz/s)	RUN
F05.29 (0x051D)	E-stop DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the deceleration time for terminal controlled emergency stop.	1.00s (0.01s~ 650.00s)	RUN

F05.3x: PUL Terminal

Code (Address)	Name	Content	Default (Range)	Property
F05.30 (0x051E)	Signal Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: X6 1: X10 extension	0 (0~1)	STOP
F05.31 (0x051F)	Min. Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency that can be accepted by the PUL terminal. If the frequency given is below this value, drive will still process by this setting. 0.000kHz~50.000kHz (F5.30=0) 0.00kHz~100.00kHz (F5.30=1 or 2)	0.000kHz (0.000kHz~500.00kHz)	RUN
F05.32 (0x0520)	Min. Frequency Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the min. input frequency of the PUL terminal.	0.00% (0.00%~100.00%)	RUN
F05.33 (0x0521)	Max. Frequency	V/F SVC FVC PMV/F PMSVC PMFVC The max frequency accepted by the PUL. If the frequency given is above this value, drive will still process by this setting. 0.000kHz~50.000kHz (F5.30=0) 0.00kHz~100.00kHz (F5.30=1 or 2)	5.000kHz (0.000kHz~500.00kHz)	RUN
F05.34 (0x0522)	Max. Frequency Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the max. input frequency of the PUL terminal.	100.00% (0.00%~100.00%)	RUN
F05.35 (0x0523)	PUL Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the pulse signal to remove interfering signals.	0.100s (0.000s~9.000s)	RUN
F05.36 (0x0524)	PUL OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Frequencies below this parameter are no longer recognized by the drive, processed as 0Hz.	0.010kHz (0.000kHz~1.000kHz)	RUN

F05.4x: vX Terminal

Code (Address)	Name	Content	Default (Range)	Property
F05.40 (0x0528)	vX1 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.41 (0x0529)	vX2 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.42 (0x052A)	vX3 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.43 (0x052B)	vX4 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.44 (0x052C)	vX5 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.45 (0x052D)	vX6 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.46 (0x052E)	vX7 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.47 (0x052F)	vX8 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F05.48 (0x0530)	vX1~vX4 ON Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: Internal connection with vYn terminal 1: Connection with Xn terminal 2: Funcode Ones-bit: vX1	0x0000 (0x0000~0x2222)	RUN

		Tens-bit: vX2 Hundreds-bit: vX3 Thousands-bit: vX4		
F05.49 (0x0531)	vX5~vX8 ON Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: Internal connection with vYn terminal 1: Connection with Xn terminal 2: Funcode Ones-bit: vX5 Tens-bit: vX6 Hundreds-bit: vX7 Thousands-bit: vX8	0x0000 (0x0000~ 0x2222)	RUN
F05.50 (0x0532)	vX1~vX4 ON from Funcode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON Ones-bit: vX1 Tens-bit: vX2 Hundreds-bit: vX3 Thousands-bit: vX4	0x0000 (0x0000~ 0x1111)	RUN
F05.51 (0x0533)	vX5~vX8 ON from Funcode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON Ones-bit: vX5 Tens-bit: vX6 Hundreds-bit: vX7 Thousands-bit: vX8	0x0000 (0x0000~ 0x1111)	RUN

4.9 F06: DO Terminal

F06.0x: Terminal Operation

Code (Address)	Name	Content	Default (Range)	Property
F06.00 (0x0600)	Terminal Y	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	1 (0~63)	RUN
F06.01 (0x0601)	RO1	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	4 (0~63)	RUN
F06.02 (0x0602)	RO2	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	4 (0~63)	RUN
F06.04 (0x0604)	Polarity	V/F SVC FVC PMV/F PMSVC PMFVC 0: Positive 1: Negative Ones-bit: Terminal Y Tens-bit: RO1 Hundreds-bit: RO2	0x0000 (0x0000~ 0x1111)	RUN

F06.1x: Terminal Delay

Code (Address)	Name	Content	Default (Range)	Property
F06.10 (0x060A)	Y ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal Y output from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.11 (0x060B)	Y OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal Y output from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F06.12 (0x060C)	RO1 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for RO1 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.13 (0x060D)	RO1 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for RO1 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN

			60.000s)	
F06.14 (0x060E)	RO2 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for RO2 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.15 (0x060F)	RO2 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for RO2 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN

F06.3x~F06.5x: vY Terminal

Code (Address)	Name	Content	Default (Range)	Property
F06.30 (0x061E)	vY1 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.31 (0x061F)	vY2 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.32 (0x0620)	vY3 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.33 (0x0621)	vY4 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.34 (0x0622)	vY5 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.35 (0x0623)	vY6 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.36 (0x0624)	vY7 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.37 (0x0625)	vY8 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	0 (0~63)	RUN
F06.38 (0x0626)	vY1 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY1 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.39 (0x0627)	vY1 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY1 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F06.40 (0x0628)	vY2 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY2 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.41 (0x0629)	vY2 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY2 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F06.42 (0x062A)	vY3 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY3 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.43 (0x062B)	vY3 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY3 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F06.44 (0x062C)	vY4 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY4 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.45 (0x062D)	vY4 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY4 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F06.46 (0x062E)	vY5 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY5 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.47 (0x062F)	vY5 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY5 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN

F06.48 (0x0630)	vY6 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY6 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.49 (0x0631)	vY6 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY6 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F06.50 (0x0632)	vY7 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY7 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.51 (0x0633)	vY7 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY7 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
F06.52 (0x0634)	vY8 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY8 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
F06.53 (0x0635)	vY8 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal vY8 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN

4.10 F07x: AI Terminal

F07.0x: Type

Code (Address)	Name	Content	Default (Range)	Property
F07.00 (0x0700)	AI1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage 0.00V~10.00V 1: Current 0.00mA~20.00mA	0 (0~1)	RUN
F07.01 (0x0701)	AI2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage -10.00V~10.00V 1: Current -20.00mA~20.00mA	0 (0~1)	RUN
F07.03 (0x0703)	AI Curve	V/F SVC FVC PMV/F PMSVC PMFVC 0: Line 1 (default) 1: Line 2 2: Curve 1 3: Curve 2 Ones-bit: AI1 Tens-bit: AI2 (Select voltage and current input via jumpers) Hundreds-bit: Reserved Thousands-bit: Reserved	0x0010 (0x0000~ 0x0033)	STOP

F07.1x: Line Setting

Code (Address)	Name	Content	Default (Range)	Property
F07.10 (0x070A)	Line 1 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is below this value, drive will process by this setting.	0.0% (-100.0%~ 100.0%)	RUN
F07.11 (0x070B)	Line 1 Lower Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 1 lower limit.	0.00% (-100.00%~ 100.00%)	RUN
F07.12 (0x070C)	Line 1 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is above this value, drive will process by this setting.	100.0% (-100.0%~ 100.0%)	RUN
F07.13 (0x070D)	Line 1 Upper Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 1 upper limit.	100.00% (-100.00%~ 100.00%)	RUN

F07.14 (0x070E)	Line 1 Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the analog signal to remove interfering signals.	0.100s (0.000s~6.000s)	STOP
F07.15 (0x070F)	Line 2 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is below this value, drive will process by this setting.	0.0% (-100.0%~100.0%)	RUN
F07.16 (0x0710)	Line 2 Lower Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 2 lower limit.	0.00% (-100.00%~100.00%)	RUN
F07.17 (0x0711)	Line 2 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is above this value, drive will process by this setting.	100.0% (-100.0%~100.0%)	RUN
F07.18 (0x0712)	Line 2 Upper Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 2 upper limit.	100.00% (-100.00%~100.00%)	RUN
F07.19 (0x0713)	Line 2 Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the analog signal to remove interfering signals.	0.100s (0.000s~6.000s)	RUN

F07.2x: Curve 1 Setting

Code (Address)	Name	Content	Default (Range)	Property
F07.20 (0x0714)	Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit for curve 1.	0.0% (0.0%~100.0%)	RUN
F07.21 (0x0715)	Lower Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 1 lower limit.	0.00% (-100.00%~100.00%)	RUN
F07.22 (0x0716)	Inflection Point 1 Input Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the curve 1 inflection point 1 input voltage.	30.00% (0.00%~100.00%)	RUN
F07.23 (0x0717)	Inflection Point 1 Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 1 inflection 1 input voltage.	30.00% (-100.00%~100.00%)	RUN
F07.24 (0x0718)	Inflection Point 2 Input Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the curve 1 inflection point 2 input voltage.	60.00% (0.00%~100.00%)	RUN
F07.25 (0x0719)	Inflection Point 2 Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 1 inflection 2 input voltage.	60.00% (-100.00%~100.00%)	RUN
F07.26 (0x071A)	Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the upper limit for curve 1.	100.00% (0.00%~100.00%)	RUN
F07.27 (0x071B)	Upper Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 1 upper limit.	100.00% (-100.00%~100.00%)	RUN

F07.3x: Curve 2 Setting

Code (Address)	Name	Content	Default (Range)	Property
F07.30 (0x071E)	Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit for curve 2.	0.00% (0.00%~100.00%)	RUN
F07.31 (0x071F)	Lower Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 2 lower limit.	0.00% (-100.00%~100.00%)	RUN

F07.32 (0x0720)	Inflection Point 1 Input Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the curve 2 inflection point 1 input voltage.	30.00% (0.00%~100.00%)	RUN
F07.33 (0x0721)	Inflection Point 1 Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 2 inflection point 1 input voltage.	30.00% (-100.00%~100.00%)	RUN
F07.34 (0x0722)	Inflection Point 2 Input Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the curve 2 inflection point 2 input voltage.	60.00% (0.00%~100.00%)	RUN
F07.35 (0x0723)	Inflection Point 2 Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 2 inflection point 2 input voltage.	60.00% (-100.00%~100.00%)	RUN
F07.36 (0x0724)	Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the upper limit for curve 2.	100.00% (0.00%~100.00%)	RUN
F07.37 (0x0725)	Upper Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the curve 2 upper limit.	100.00% (-100.00%~100.00%)	RUN

F07.4x: AI as XI

Code (Address)	Name	Content	Default (Range)	Property
F07.40 (0x0728)	AI as DI Logic	V/F SVC FVC PMV/F PMSVC PMFVC 0: Valid at low level 1: Valid at high level Ones-bit: AI1 Tens-bit: AI2 Hundreds-bit: Reserved Thousands-bit: Reserved	0x0000 (0x0000~0x0011)	STOP
F07.41 (0x0729)	AI1 Function (as X Terminal)	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F07.42 (0x072A)	AI1 High Level	V/F SVC FVC PMV/F PMSVC PMFVC Any value beyond this setting is considered as high level.	70.00% (0.00%~100.00%)	RUN
F07.43 (0x072B)	AI1 Low Level	V/F SVC FVC PMV/F PMSVC PMFVC Any value below this setting is considered as low level.	30.00% (0.00%~100.00%)	RUN
F07.44 (0x072C)	AI2 Function (as X Terminal)	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal X.	0 (0~95)	STOP
F07.45 (0x072D)	AI2 High Level	V/F SVC FVC PMV/F PMSVC PMFVC Any value beyond this setting is considered as high level.	70.00% (0.00%~100.00%)	RUN
F07.46 (0x072E)	AI2 Low Level	V/F SVC FVC PMV/F PMSVC PMFVC Any value below this setting is considered as low level.	30.00% (0.00%~100.00%)	RUN

4.11 F08: AO Terminal

F08.0x: AO1

Code (Address)	Name	Content	Default (Range)	Property
F08.00 (0x0800)	AO1 Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: 0V~10V 1: 4.00mA~20.00mA 2: 0.00mA~20.00mA 3: FM pulse	0 (0~4)	RUN

		4: Fixed frequency		
F08.01 (0x0801)	AO1 Content	V/F SVC FVC PMV/F PMSVC PMFVC 0: Given frequency 1: Output frequency 2: Output current 3: Input voltage 4: Output voltage 5: Mechanical speed 6: Given torque 7: Output torque 8: PID setting 9: PID feedback 10: Output power 11: Bus voltage 12: AI1 value 13: AI2 value 14: Reserved 15: PUL 16: Module temp. 1 17: Module temp. 2 18: 485 communication 19: vY1, 0 means OFF while 1 means ON Others: Connector (detailed in Chapter 7)	0 (0~65535)	RUN
F08.02 (0x0802)	AO1 Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the gain value of the analog output.	100.0% (0.0%~300.0%)	RUN
F08.03 (0x0803)	AO1 Bias	V/F SVC FVC PMV/F PMSVC PMFVC Set the AO1 bias. Used to adjust the zero point of the terminal output.	0.0% (-10.0%~10.0%)	RUN
F08.04 (0x0804)	AO1 Filter	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the analog signal to remove interfering signals.	0.010s (0.000s~6.000s)	RUN
F08.05 (0x0805)	AO1 as FM Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set AO1 as the lower limit of FM frequency output.	0.20kHz (0.00kHz~100.00kHz)	RUN
F08.06 (0x0806)	AO1 as FM Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the AO1 as the FM upper limit.	50.00kHz (0.00kHz~100.00kHz)	RUN

F08.1x: AO2

Code (Address)	Name	Content	Default (Range)	Property
F08.10 (0x080A)	AO2 Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: 0V~10V 1: 4.00mA~20.00mA 2: 0.00mA~20.00mA 3: FM pulse 4: Fixed frequency	0 (0~4)	RUN
F08.11 (0x080B)	AO2 Content	V/F SVC FVC PMV/F PMSVC PMFVC 0: Given frequency 1: Output frequency 2: Output current 3: Input voltage 4: Output voltage 5: Mechanical speed 6: Given torque 7: Output torque 8: PID setting 9: PID feedback	0 (0~65535)	RUN

		10: Output power 11: Bus voltage 12: AI1 value 13: AI2 value 14: Reserved 15: PUL 16: Module temp. 1 17: Module temp. 2 18: 485 communication 19: vY1, 0 means OFF while 1 means ON Others: Connector (detailed in Chapter 7)		
F08.12 (0x080C)	AO2 Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the gain value of the analog output.	100.0% (0.0%~300.0%)	RUN
F08.13 (0x080D)	AO2 Bias	V/F SVC FVC PMV/F PMSVC PMFVC Set the AO2 output bias. The zero point used to adjust the terminal output.	0.0% (-10.0%~10.0%)	RUN
F08.14 (0x080E)	AO2 Filter	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the analog signal to remove interfering signals.	0.010s (0.000s~6.000s)	RUN
F08.15 (0x080F)	AO2 as FM Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the AO2 as the FM lower limit.	0.20kHz (0.00kHz~100.00kHz)	RUN
F08.16 (0x0810)	AO2 as FM Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set AO2 as the upper limit of the FM frequency output.	50.00kHz (0.00kHz~100.00kHz)	RUN

4.12 F09: Operation Control

F09.0x: Start Control

Code (Address)	Name	Content	Default (Range)	Property
F09.00 (0x0900)	Start Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Start at starting frequency 1: Start from DC braking and then at starting frequency 2: Start from fly track and direction identification	0 (0~2)	STOP
F09.01 (0x0901)	Start Pre-excitation Time	V/F SVC FVC PMV/F PMSVC PMFVC Only the asynchronous motor in vector control supports pre-excitation, which is not supported in other cases. When it is set to 0, pre-excitation is started as motor parameter. When it is not set to 0, pre-excitation is started at the set time.	0.00s (0.00s~60.00s)	STOP
F09.02 (0x0902)	Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Stay in standby status instead of starting when the given frequency is lower than this value.	0.00Hz (0.00Hz~Upper limit frequency)	STOP
F09.03 (0x0903)	Start Protection	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON Ones-bit: ON when terminals under abnormal exit Tens-bit: ON when jogging terminals under abnormal exit Hundreds-bit: ON when command source switched to terminals Thousands-bit: Reserved Note: The terminal starting protection is enabled by	0x0111 (0x0000~0x0111)	STOP

		default when the free stop, emergency stop or forced stop command are valid		
F09.05 (0x0905)	Operation Direction	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Reverse operation direction 0: OFF 1: ON Tens-bit: Direction disable 0: FWD/REV allowed 1: Only FWD allowed 2: Only REV allowed Hundreds-bit: Frequency controlled direction 0: OFF 1: ON Thousands-bit: Reserved Note: This value will not be reset during initialization; and the ones-bit value will not be changed after parameter download	0x0000 (0x0000~0x1121)	STOP
F09.06 (0x0906)	Power-OFF Restart	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~2)	STOP
F09.07 (0x0907)	Power-OFF Restart Waiting Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the power-off restart waiting time.	0.50s (0.00s~60.00s)	STOP

F09.1x: Stop Control

Code (Address)	Name	Content	Default (Range)	Property
F09.10 (0x09A)	Stop Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Deceleration stop 1: Free stop (All the stop commands are processed as free stops.) 2: Full-range DC brake 3: Free stop mode with delay	0 (0~3)	RUN
F09.11 (0x090B)	Stop Frequency	V/F SVC FVC PMV/F PMSVC PMFVC In deceleration stop mode, the drive will stop if the output frequency is lower than this value.	0.50Hz (0.00Hz~Upper limit frequency)	RUN
F09.12 (0x090C)	Pause-Restart Time Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the pause-restart time limit.	0.000s (0.000s~60.000s)	STOP
F09.15 (0x090F)	Under-Lower Limit Frequency Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Run at frequency command 1: Free stop and pause, then start by F9.00 setting 2: Run at lower limit frequency 3: Run at zero frequency 4: Free stop and pause, then start from fly track 5: Pause and end fly track when given frequency below the lower limit frequency.	2 (0~5)	RUN
F09.16 (0x0910)	Zero Frequency Torque	V/F SVC FVC PMV/F PMSVC PMFVC 100.0% of the rated motor current, the upper limit of the zero-frequency current is the rated current of the drive.	60.0% (0.0%~150.0%)	RUN
F09.17 (0x0911)	Zero Frequency Torque Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the zero-frequency torque holding time.	0.0s (0.0s~6000.0s)	RUN
F09.18 (0x0912)	FED/REV Deadtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the zero frequency holding time during FWD/REV shifting.	0.0s (0.0s~120.0s)	STOP

F09.2x: DC Braking

Code (Address)	Name	Content	Default (Range)	Property
F09.20 (0x0914)	Start DB Current	V/F SVC FVC PMV/F PMSVC PMFVC 100.0% of the rated motor current, the upper limit of the braking current is the rated current of the drive..	60.0% (0.0%~150.0%)	STOP
F09.21 (0x0915)	Start DB Hold Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the braking time before startup.	0.0s (0.0s~60.0s)	STOP
F09.22 (0x0916)	Stop DB Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the DC braking starting frequency.	1.00Hz (0.00Hz~50.00Hz)	STOP
F09.23 (0x0917)	DB Current	V/F SVC FVC PMV/F PMSVC PMFVC 100.0% of the rated motor current, the upper limit of the braking current is the rated current of the drive.	60.0% (0.0%~150.0%)	STOP
F09.24 (0x0918)	Stop DB Hold Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the DC braking time during stop.	0.0s (0.0s~60.0s)	STOP
F09.29 (0x091D)	PM SC Braking Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the short-circuit braking time for the permanent magnet synchronous motor.	0.00s (0.00s~60.00s)	STOP

F09.3x: Jogging

Code (Address)	Name	Content	Default (Range)	Property
F09.30 (0x091E)	Jog Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the jogging frequency.	5.00Hz (0.00Hz~Max . frequency)	RUN
F09.31 (0x091F) RUN	Jog ACC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the jogging acceleration time.	10.00s (0.01s~650.00s)	RUN
F09.32 (0x0920) RUN	Jog DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the jogging deceleration time.	10.00s (0.01s~650.00s)	RUN
F09.33 (0x0921) RUN	S-curve Jog	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	1 (0~1)	RUN
F09.34 (0x0922) RUN	Jog Stop Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Same as the mode in F7.10 1: Deceleration stop only	0 (0~1)	RUN

F09.4x: Start/Stop Hold Frequency and Jump Frequency

Code (Address)	Name	Content	Default (Range)	Property
F09.40 (0x0728)	Start Hold Frequency	V/F SVC FVC PMV/F PMSVC PMFVC It is higher than the starting frequency and lower than the upper limit frequency set from the keypad.	0.50Hz (0.00Hz~Upper limit frequency)	STOP
F09.41 (0x0729)	Start Hold Frequency Time	V/F SVC FVC PMV/F PMSVC PMFVC The set value should be greater than the starting frequency, and if it is insufficient, start at starting frequency.	0.00s (0.00s~60.00s)	STOP
F09.42 (0x072A)	Stop Hold Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the holding frequency at stop.	0.50Hz (0.00Hz~Upper limit frequency)	STOP
F09.43 (0x072B)	Stop Hold Frequency Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the holding frequency during stop.	0.00s (0.00s~60.00s)	STOP

F09.44 (0x072C)	Jump Frequency 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the jump frequency 1.	0.00Hz (0.00Hz~Max . frequency)	RUN
F09.45 (0x072D)	Jump Frequency Range 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the jump frequency range.	0.00Hz (0.00Hz~Max . frequency)	RUN
F09.46 (0x072E)	Jump Frequency 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the jump frequency 2.	0.00Hz (0.00Hz~Max . frequency)	RUN
F09.47 (0x072F)	Jump Frequency Range 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the jump frequency range.	0.00Hz (0.00Hz~Max . frequency)	RUN

F09.5x: Fly Track

Code (Address)	Name	Content	Default (Range)	Property
F09.50 (0x0932)	Fly Track	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Search mode 0: search from max. frequency 1: Search from stop frequency Tens-bit: Search backwards 0: OFF 1: ON Hundreds-bit: Reserved Thousands-bit: Reserved	0x0000 (0x0000~ 0x0111)	STOP
F09.51 (0x0933)	Fly Track Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the fly track time.	0.50s (0.00s~ 60.00s)	STOP
F09.52 (0x0934)	Fly Track Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the fly track stop delay.	1.00s (0.00s~ 60.00s)	STOP
F09.53 (0x0935)	Fly Track Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the fly track current.	120.0% (0.0%~ 400.0%)	STOP

4.13 F10: Protection Parameters

F10.0x: Current Protection

Code (Address)	Name	Content	Default (Range)	Property
F10.00 (0x0A00)	Anti-OC	V/F SVC FVC PMV/F PMSVC PMFVC Set the auto limit below the set overcurrent suppression point to prevent faults triggered by excessive current. 0: ON 1: ON during acceleration and deceleration and OFF during constant speed	0 (0~1)	RUN
F10.01 (0x0A01)	Anti-OC Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the load current limit level, 100% of the drive rated current.	160.0% (0.0%~300.0%)	RUN
F10.02 (0x0A02)	Anti-OC Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the response effect of anti-overcurrent function.	100.0% (0.0%~500.0%)	RUN
F10.03 (0x0A03)	Current Protection 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the current-related protection on/off. Ones-bit: CBC 0: OFF 1: ON Tens-bit: Anti-interference for OC protection 0: Normal 1: Level 1 2: Level 2 Hundreds-bit: Anti-interference for SC protection 0: Normal 1: Level 1 2: Level 2 Thousands-bit: SC, OC, OU, fault reset delay 0: OFF 1: ON	0x1001 (0x0000~0x1221)	STOP
F10.04 (0x0A04)	Current Protection 2	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Three-phase current sum protection 0: OFF 1: ON Tens-bit: Three-phase current imbalance protection 0: OFF 1: ON	0x0001 (0x0000~0x0011)	STOP
F10.05 (0x0A05)	Current Imbalance Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Compare the ratio of the largest to the smallest phase of the three-phase current with the set value here to see if it is current imbalance.	160% (0%~500%)	STOP
F10.06 (0x0A06)	Current Imbalance Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Increase this parameter under high current fluctuation.	2.0s (0.0s~60.0s)	STOP
F10.07 (0x0A07)	OS, SC Reset Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for OS, SC reset.	10.000s (0.000s~60.000s)	RUN
F10.08 (0x0A08)	Single-phase Overload	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	STOP
F10.09 (0x0A09)	Overload Protection Current Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the coefficient for drive overload protection current.	0.0% (0.0%~1000.0%)	RUN

F10.1x: Voltage Protection

Code (Address)	Name	Content	Default (Range)	Property
F10.11 (0x0A0B)	Anti-OU	V/F SVC FVC PMV/F PMSVC PMFVC If the bus voltage is higher than the anti-overvoltage limit, acceleration and deceleration will be slowed down or canceled to prevent overvoltage faults. Ones-bit: Anti-OU 0: OFF 1: ON Tens-bit: Over-excitation 0: OFF 1: ON during deceleration 2: ON during operation	0x0011 (0x0000~ 0x0021)	STOP
F10.12 (0x0A0C)	Anti-OU Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the bus voltage value to trigger the anti-overvoltage function.	740V (0V~OU limit) T3: 780V	STOP
F10.13 (0x0A0D)	Anti-OU Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the response effect of anti-overvoltage function.	100.0% (0.0%~500.0%)	RUN
F10.14 (0x0A0E)	Dynamic Brake	V/F SVC FVC PMV/F PMSVC PMFVC Set the dynamic brake on/off. 0: OFF 1: ON, with anti-overvoltage function OFF 2: ON, with anti-overvoltage function ON.	2 (0~2)	RUN
F10.15 (0x0A0F)	Dynamic Brake Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the dynamic brake voltage to start when the bus voltage is higher than this value.	735V (0V~ OU limit) T3: 780V	RUN
F10.16 (0x0A10)	Anti-LU	V/F SVC FVC PMV/F PMSVC PMFVC Auto-adjust the operation frequency when the bus voltage is lower than the anti-undervoltage point to prevent undervoltage fault 0: OFF 1: ON	0 (0~1)	STOP
F10.17 (0x0A11)	Anti-LU	V/F SVC FVC PMV/F PMSVC PMFVC Set the bus voltage value to trigger the anti-undervoltage function.	430V (0V~OU limit) T3: 780V	STOP
F10.18 (0x0A12)	Anti-LU Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the response effect of anti-undervoltage function.	100.0% (0.0%~500.0%)	STOP
F10.19 (0x0A13)	Anti-LU Protection	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit voltage of the busbar voltage allowed, report undervoltage fault when below this value.	350V (0V~OU limit) T3: 780V	STOP

F10.2x: Auxiliary Protection

Code (Address)	Name	Content	Default (Range)	Property
F10.20 (0x0A14)	I/O Phase Loss Protection	V/F SVC FVC PMV/F PMSVC PMFVC Set the I/O phase loss protection function on or off. Ones-bit: Output phase loss protection 0: OFF 1: ON Tens-bit: Input phase loss protection 0: OFF 1: ON Hundreds-bit: Reserved Thousands-bit: Reserved	0x0011 (0x0000~ 0x0011)	STOP

F10.21 (0x0A15)	Input Phase Loss Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage detection percentage for the input phase loss detection, 100% of the rated bus voltage.	10.0% (0.0%~30.0%)	STOP
F10.22 (0x0A16)	Ground SC Protection	V/F SVC FVC PMV/F PMSVC PMFVC Set the drive output and cooling fan to ground short circuit protection on/off. Ones-bit: Ground SC detection 0: OFF 1: Detect after power on 2: Detect before operation Tens-bit: Fan SC detection after power on 0: OFF 1: ON	0x0011 (0x0000~ 0x0012)	STOP
F10.23 (0x0A17)	Fan ON/OFF	Set the drive cooling fan operation mode. 0: ON after power on 1: ON/OFF according to command 2: ON/OFF according to temperature	1 (0~2)	RUN
F10.24 (0x0A18)	Fan Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the time from running command releasing to cooling fan stopping.	30.00s (0.00s~ 600.00s)	STOP
F10.25 (0x0A19)	Drive oH1 Warning Level	V/F SVC FVC PMV/F PMSVC PMFVC Set the value for overheating, report an alarm when it is above this value.	80.0°C (0.0°C~ 120.0°C)	RUN
F10.29 (0x0A1D)	Fan SC Test	V/F SVC FVC PMV/F PMSVC PMFVC Conduct the fan SC test.	0 (0~65535)	RUN

F10.3x: Load Protection

Code (Address)	Name	Content	Default (Range)	Property
F10.31 (0x0A1F)	Load Type	V/F SVC FVC PMV/F PMSVC PMFVC Set the load type. 0: Torque 1: Current	0 (0~1)	STOP
F10.32 (0x0A20)	Load Alarm Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the drive load detection mode and the alarm mode at this time. Ones-bit: Load detection mode 1 0: Detection OFF 1: Detect overload 2: Detect overload at constant speed only 3: Detect underload 4: Detect underload at constant speed only Tens-bit: Reserved Hundreds-bit: Load detection mode 2 0: Detection OFF 1: Detect overload 2: Detect overload at constant speed only 3: Detect underload 4: Detect underload at constant speed only Thousands-bit: Reserved	0x0000 (0x0000~ 0x1414)	STOP
F10.33 (0x0A21)	Load Alarm Level 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the value for load alarm 1. For V/F control, 100% of the rated motor current. For vector control, 100% of the motor rated output torque.	130.0% (0.0%~200.0%)	STOP
F10.34 (0x0A22)	Load Alarm Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the detection duration of load alarm 1. If the load	5.0s (0.0s~60.0s)	STOP

		is higher than the load alarm threshold for the set time here, report load alarm 1.		
F10.35 (0x0A23)	Load Alarm Level 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the value for load alarm 2. For V/F control, 100% of the rated motor current. For vector control, 100% of the motor rated output torque.	30.0% (0.0%~200.0%)	STOP
F10.36 (0x0A24)	Load Alarm Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the detection duration of load alarm 2. If the load is higher than the load alarm threshold for the set time here, report load alarm 2.	5.0s (0.0s~60.0s)	STOP

F10.4x: Stall Protection

Code (Address)	Name	Content	Default (Range)	Property
F10.40 (0x0A28)	Excessive Speed Deviation Protection	V/F SVC FVC PMV/F PMSVC PMFVC Set the detection and alarm modes when the deviation between the motor's given speed and the feedback speed is too large. Ones-bit: Detection mode 0: OFF 1: Detect only at constant speed 2: ON	0x0000 (0x0000~0x0002)	STOP
F10.41 (0x0A29)	Excessive Speed Deviation Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the detection value for excessive speed deviation, 100% of F01.10 [Max. Frequency].	10.0% (0.0%~60.0%)	STOP
F10.42 (0x0A2A)	Excessive Speed Deviation Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the duration for detecting excessive speed deviation. If the deviation between the given speed and the feedback speed is greater than F10.41 and continues for this time, an excessive speed deviation alarm is reported.	2.0s (0.0s~60.0s)	STOP
F10.43 (0x0A2B)	Overspeed Protection	V/F SVC FVC PMV/F PMSVC PMFVC Set the detection and alarm modes for motor overspeed. Ones-bit: Detection mode 0: OFF 1: Detect only at constant speed 2: ON	0x0002 (0x0000~0x0002)	STOP
F10.44 (0x0A2C)	Overspeed Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the value of the overspeed detection, 100% of F01.10 [Max. Frequency].	110.0% (0.0%~150.0%)	STOP
F10.45 (0x0A2D)	Overspeed Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the duration of stall detection. If the feedback speed is higher than F10.44 and continues for this time, report the stall alarm.	0.100s (0.000s~2.000s)	STOP
F10.46 (0x0A2E)	STO Auto Reset	Set the STO fault auto reset.	0 (0~1)	STOP
F10.47 (0x0A2F)	STO Signal Filter Time	Set the STO signal filter time.	0 (0~65535)	STOP

F10.5x: Motor Overload

Code (Address)	Name	Content	Default (Range)	Property
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F10.50 (0x0A32)	Motor Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Common motor 1: Variable frequency motor (50Hz) 2: Variable frequency motor (60Hz) 3: Motor without fans	0 (0~3)	RUN
F10.51 (0x0A33)	Insulation Grade	V/F SVC FVC PMV/F PMSVC PMFVC 0: Grade A 1: Grade E 2: Grade B 3: Grade F 4: Grade H 5: Special grade S	3 (0~5)	STOP
F10.52 (0x0A34)	Work Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0-1: S1 pattern (continuous operation) 2: S2 pattern 3-9: S3-S9	0 (0~9)	STOP
F10.53 (0x0A35)	Motor OL Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor overload threshold. Record the overload quantity when actual current is greater than the value here.	105.0% (0.0%~130.0%)	STOP
F10.54 (0x0A36)	Motor OL Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Motor overload current=actual current * motor overload coefficient.	100.0% (0.0%~250.0%)	STOP

F10.6x-F10.8x: Error Handling

Code (Address)	Name	Content	Default (Range)	Property
F10.61 (0x0A3D)	Auto Reset No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the number of times allowed to perform error auto reset. Note: 0 indicates that the error reset function is disabled; otherwise, it is enabled.	0 (0~10)	STOP
F10.62 (0x0A3E)	Auto Reset Interval	V/F SVC FVC PMV/F PMSVC PMFVC Set the waiting time after an error occurs until reset.	1.0s (0.1s~100.0s)	STOP
F10.63 (0x0A3F)	Performed Auto Reset	V/F SVC FVC PMV/F PMSVC PMFVC Indicate the times of already performed auto error reset, read-only.	0	READ
F10.64 (0x0A40)	Auto Error Reset Limit	V/F SVC FVC PMV/F PMSVC PMFVC No reset allowed if OC/SC/OL/OH errors occur 3 times within 5 minutes.	0 (0~1)	STOP
F10.66 (0x0A42)	Auto Error Reset Attribution 1	V/F SVC FVC PMV/F PMSVC PMFVC Auto 0-15 errors reset 1: ON 2: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.67 (0x0A43)	Auto Error Reset Attribution 2	V/F SVC FVC PMV/F PMSVC PMFVC Auto 16-31 errors reset 1: ON 2: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.68 (0x0A44)	Auto Error Reset Attribution 3	V/F SVC FVC PMV/F PMSVC PMFVC Auto 32-37 errors reset 1: ON 2: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.69 (0x0A45)	Auto Error Reset Attribution 4	V/F SVC FVC PMV/F PMSVC PMFVC Auto 38-53 errors reset 1: ON 2: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.70	Auto Error	V/F SVC FVC PMV/F PMSVC PMFVC	0x0000	RUN

(0x0A46)	Reset Attribution 5	Auto 54-69 errors reset 1: ON 2: OFF	(0x0000~0xFFFF)	
F10.71 (0x0A47)	Auto Error Reset Attribution 6	V/F SVC FVC PMV/F PMSVC PMFVC Auto 70-85 errors reset 1: ON 2: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.72 (0x0A48)	Auto Error Reset Attribution 7	V/F SVC FVC PMV/F PMSVC PMFVC Auto 86-101 errors reset 1: ON 2: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.73 (0x0A49)	Auto Error Reset Attribution 8	V/F SVC FVC PMV/F PMSVC PMFVC Auto 102-107 errors reset 1: ON 2: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.74 (0x0A4A)	Error Record Attribution 1	V/F SVC FVC PMV/F PMSVC PMFVC 0-15 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.75 (0x0A4B) RUN	Error Record Attribution 2	V/F SVC FVC PMV/F PMSVC PMFVC 16-31 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.76 (0x0A4C)	Error Record Attribution 3	V/F SVC FVC PMV/F PMSVC PMFVC 32-37 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.77 (0x0A4D)	Error Record Attribution 4	V/F SVC FVC PMV/F PMSVC PMFVC 38-53 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.78 (0x0A4E)	Error Record Attribution 5	V/F SVC FVC PMV/F PMSVC PMFVC 54-69 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.79 (0x0A4F)	Error Record Attribution 6	V/F SVC FVC PMV/F PMSVC PMFVC 70-85 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.80 (0x0A50)	Error Record Attribution 7	V/F SVC FVC PMV/F PMSVC PMFVC 86-101 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.81 (0x0A51)	Error Record Attribution 8	V/F SVC FVC PMV/F PMSVC PMFVC 102-107 errors record 1: ON 0: OFF	0x0000 (0x0000~0xFFFF)	RUN
F10.82 (0x0A52)	Error Level 1	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Motor overload Tens-bit: Input phase loss Hundreds-bit: Three-phase output phase loss Thousands-bit: U-phase output loss 0: Free stop 1: F09.10 2: Operation at limited frequency 3: Operation at limited current 4: Operation at limited power	0x0000 (0x0000~0x4444)	RUN
F10.83 (0x0A53)	Error Level 2	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: V-phase output loss	0x0000 (0x0000~	RUN

		Tens-bit: W-phase output loss Hundreds-bit: Motor overheat Thousands-bit: External error 0: Free stop 1: F09.10 2: Operation at limited frequency 3: Operation at limited current 4: Operation at limited power	0x4444)	
F10.84 (0x0A54)	Error Level 3	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Communication break Tens-bit: PID break Hundreds-bit: Parameter copy error Thousands-bit: PG parameter error 0: Free stop 1: F09.10 2: Operation at limited frequency 3: Operation at limited current 4: Operation at limited power 5: Report alarm 6: Ignore	0x0566 (0x0000~ 0x6566)	RUN
F10.85 (0x0A55)	Error Level 4	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Excessive speed deviation Tens-bit: Overspeed protection Hundreds-bit: Load protection 1 Thousands-bit: Load protection 2 0: Free stop 1: F09.10 2: Operation at limited frequency 3: Operation at limited current 4: Operation at limited power 5: Report alarm 6: Ignore	0x6600 (0x0000~ 0x6644)	RUN
F10.86 (0x0A56)	Error Level 5	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Comparator error 1 Tens-bit: Comparator error 2 Hundreds-bit: Comparator error 3 Thousands-bit: Comparator error 4 0: Free stop 1: F09.10 2: Operation at limited frequency 3: Operation at limited current 4: Operation at limited power 5: Report alarm 6: Ignore	0x6666 (0x0000~ 0x6666)	RUN
F10.87 (0x0A57)	Error Level 6	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Overheat error 1 Tens-bit: Overheat error 2 Hundreds-bit: Temp sensor 1 break Thousands-bit: Temp sensor 2 break 0: Free stop 1: F09.10 2: Operation at limited frequency 3: Operation at limited current 4: Operation at limited power 5: Report alarm 6: Ignore	0x0000 (0x0000~ 0x6600)	RUN
F10.89 (0x0A59)	Extension Break Mode	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Extension 1 Tens-bit: Extension 2 Hundreds-bit: Extension 3 Thousands-bit: Board communication error E.EXCM	0x6666 (0x0000~ 0x6666)	RUN

		0: Free stop 1: F09.10 2: Operation at limited frequency 3: Operation at limited current 4: Operation at limited power 5: Report alarm 6: Ignore		
F10.90 (0x0A5A)	Frequency Limit Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Operation at current frequency 1: Operation at set frequency	0 (0~4)	RUN
F10.91 (0x0A5B)	Frequency Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the value of frequency limit.	30.00Hz (0.00Hz~50.00Hz)	RUN
F10.92 (0x0A5C)	Current Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the current range.	80.0% (30.0%~190.0%)	RUN

4.14 F11: Keypad Parameters

F11.0x: Key Operation

Code (Address)	Name	Content	Default (Range)	Property
F11.00 (0x0B00)	Key Lock	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Lock parameter modified via keypad 2: Lock functional parameters and non-start/stop key 3: Lock all the functional parameters and keys	0 (0~3)	RUN
F11.01 (0x0B01)	Key Lock Password	V/F SVC FVC PMV/F PMSVC PMFVC Use with key lock. Please remember the password after setting; otherwise, it will not be operated if locked.	0 (0~65535)	RUN
F11.02 (0x0B02)	Multi-function Key	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Reverse operation 2: Forward jogging 3: Reverse jogging 4: Switch command source between keypad and terminal 5: Switch command source between keypad and communication 6: Switch command source between terminal and communication 7: Switch command source among keypad, terminal and communication cyclically	0 (0~7)	STOP
F11.03 (0x0B03)	STOP Key	V/F SVC FVC PMV/F PMSVC PMFVC 0: Non-keypad control invalid 1: Non-keypad stop works according to F09.10 2: Non-keypad stop works according to the free stop mode	0 (0~2)	STOP
F11.04 (0x0B04)	UP/DW (Knob) Key	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: UP/DW key for modification 0: OFF 1: ON to modify F01.09 [Frequency] 2: ON to modify F13.01 [PID Setting/Feedback] 3: ON to modify function code of F11.05. Tens-bit: Power-down save 0: OFF 1: ON	0x0011 (0x0000~0x0213)	STOP

		Hundreds-bit: Conditions 0: Modifiable during operation and stop 1: Modifiable during operation, kept during stop 2: Modifiable during operation, cleared after stop Thousands-bit: Reserved		
F11.05 (0x0B05)	UP/DW Key for Modification	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~99 to yy in Fxx.yy Hundreds- and thousands-bit: Set 00~15 to xx in Fxx.yy Valid when the ones-bit of F11.04 is 3; for example, when F11.05=xyyy, the UP/DW key on the keypad can quickly modify the setting value of [Fxx.yy].	0x0109 (0x0000~0x1599)	RUN
F11.06 (0x0B06)	Command Key	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bits: Internal/external command keys (RUN, STOP/RESET) 0: External first, when external keys are valid, internal are invalid 1: Internal first, when internal keys are valid, external are invalid 2: Both internal and external are valid, stop/reset command first; when both forward and reverse are valid, the command is invalid. Tens-bit: Keypad communication 0: Both internal and external keypads valid 1: Internal keypad valid only 2: External keypad valid only Hundreds-bit: LCD keypad language 0: Chinese 1: English Thousands-bit: Keypad test (communication success rate) 0: OFF 1: ON	0x0000 (0x0000~0x1122)	STOP
F11.09 (0x0B09)	Production Mode	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Model write 0: OFF 1: ON	0x0001 (0x0000~0x1111)	READ

F11.1x: Cyclic Monitoring of Status Interface

Code (Address)	Name	Content	Default (Range)	Property
F11.10 (0x0B0A)	L/R Key	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Left shift key to adjust the first row of monitoring 0: OFF 1: ON Tens-bit: Right shift key to adjust the second row of monitoring 0: OFF 1: ON When the left/right shift key is OFF, the monitor display value is shown as parameter 1 after re-powering up.	0x0011 (0x0000~0x0011)	STOP

F11.11 (0x0B0B)	Parameter 1 for 1st Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0000 (0x0000~ 0x1599)	RUN
F11.12 (0x0B0C)	Parameter 2 for 1st Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0001 (0x0000~ 0x1599)	RUN
F11.13 (0x0B0D)	Parameter 3 for 1st Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0002 (0x0000~ 0x1599)	RUN
F11.14 (0x0B0E)	Parameter 4 for 1st Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0011 (0x0000~ 0x1599)	RUN
F11.15 (0x0B0F)	Parameter 1 for 2nd Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0002 (0x0000~ 0x1599)	RUN
F11.16 (0x0B10)	Parameter 2 for 2nd Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0004 (0x0000~ 0x1599)	RUN
F11.17 (0x0B11)	Parameter 3 for 2nd Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0010 (0x0000~ 0x1599)	RUN
F11.18 (0x0B12)	Parameter 4 for 2nd Row Cyclic Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the Cxx.yy of the monitor parameter code Hundreds- and thousands-bit: Set 00~07 to xx in the Cxx.yy of the monitor parameter code	0x0012 (0x0000~ 0x1599)	RUN
F11.19 (0x0B13)	Keypad Small Number Display	V/F SVC FVC PMV/F PMSVC PMFVC 0: Keypad address 1: Control board RJ45 address 2: Control board A+B- address 3: CAN card node address 4: DP card node address Note: Keyboard diagram 3-1 Area A is displayed, see Chapter 3	0 (0~65535)	RUN

F11.2x: Monitoring Parameters

Code (Address)	Name	Content	Default (Range)	Property
F11.20 (0x0B14)	Keypad Display Item	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Output frequency display 0: Target frequency 1: Operation frequency 2~F: The larger the value, the deeper the filtering Tens-bit: Reserved Hundreds-bit: Power dimension 0: In percentage (%) 1: In kilowatt (kW) Thousands-bit: Reserved	0x0002 (0x0000~ 0x111F)	RUN
F11.21 (0x0B15)	Speed Display Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the display of C00.05 [Mechanical Speed].	100.0% (0.0%~500.0%)	RUN
F11.22 (0x0B16)	Power Display Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the display of C00.10 [Output Power].	100.0% (0.0%~500.0%)	RUN
F11.23 (0x0B17)	Monitoring Group Display	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the display of AC drive monitoring group.	0x0000 (0x0000~ 0xFFFF)	RUN
F11.24 (0x0B18)	Monitoring Parameter Filter Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Output current display with filtering 0~F: The larger the value, the deeper the filtering Tens-bit: Reserved Hundreds-bit: Reserved Thousands-bit: Reserved	0x0002 (0x0000~ 0x000F)	RUN
F11.25 (0x0B19)	Motor Auto-tuning Display	V/F SVC FVC PMV/F PMSVC PMFVC 0: ON 1: OFF	0 (0~1)	STOP
F11.27 (0x0B1B)	Error Auto-Reset Display	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Display the error during error reset 0: OFF 1: ON	0x0001 (0x0000~ 0x0001)	RUN

F11.3x: Keypad Communication Parameter

Code (Address)	Name	Content	Default (Range)	Property
F11.30 (0x0B1E)	Keypad Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the keypad communication address.	1 (0~9)	STOP
F11.31 (0x0B1F)	Baud Rate	V/F SVC FVC PMV/F PMSVC PMFVC 0: 1200bps 1: 2400bps 2: 4800bps 3: 9600bps 4: 19200bps 5: 38400bps 6: 57600bps 7: 115200bps	0 (0~7)	RUN

4.15 F12: Communication Parameters

F12.0x: Modbus Slave

Code (Address)	Name	Content	Default (Range)	Property
F12.00 (0x0C00) STOP	RS485 Master/Slave	V/F SVC FVC PMV/F PMSVC PMFVC 0: Slave 1: Master	0 (0~1)	STOP
F12.01 (0x0C01)	Modbus Address	V/F SVC FVC PMV/F PMSVC PMFVC Set different values for different slaves.	1 (1~247)	STOP
F12.02 (0x0C02)	Baud Rate	V/F SVC FVC PMV/F PMSVC PMFVC 0: 1200 bps 1: 2400 bps 2: 4800 bps 3: 9600 bps 4: 19200 bps 5: 38400 bps 6: 57600 bps 7: 115200 bps	3 (0~7)	STOP
F12.03 (0x0C03)	Data Format	V/F SVC FVC PMV/F PMSVC PMFVC 0: (N, 8, 1) no parity, data bit: 8, stop bit: 1 1: (E, 8, 1) even parity, data bit: 8, stop bit: 1 2: (O, 8, 1) odd parity, data bit: 8, stop bit: 1 3: (N, 8, 2) no parity, data bit: 8, stop bit: 2 4: (E, 8, 2) even parity, data bit: 8, stop bit: 2 5: (O, 8, 2) odd parity, data bit: 8, stop bit: 2	0 (0~5)	STOP
F12.04 (0x0C04)	Modbus Response	V/F SVC FVC PMV/F PMSVC PMFVC 0: Write operation valid 1: Write operation invalid	0 (0~1)	RUN
F12.05 (0x0C05)	Response Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the Modbus communication response delay.	0ms (0ms~5000ms)	RUN
F12.06 (0x0C06)	Communicati on Timeout	V/F SVC FVC PMV/F PMSVC PMFVC Set the Modbus communication error time.	1.0s (0.1s~100.0s)	RUN
F12.07 (0x0C07)	Communicati on Break	V/F SVC FVC PMV/F PMSVC PMFVC 0: Detection OFF 1: Detection ON	0 (0~1)	RUN
F12.08 (0x0C08)	Data Bias (0x3000)	V/F SVC FVC PMV/F PMSVC PMFVC Set the bias to correct communication data on 0x3000.	0.00 (-100.00~ 100.00)	RUN
F12.09 (0x0C09)	Data Gain (0x3000)	V/F SVC FVC PMV/F PMSVC PMFVC Perform linear correction on address 0x3000 communication data.	100.0% (0.0%~500.0%)	RUN

F12.1x: Modbus Master

Code (Address)	Name	Content	Default (Range)	Property
F12.10 (0x0C0A)	Master Cycle Parameter	V/F SVC FVC PMV/F PMSVC PMFVC Ones-, tens-, hundreds-, and thousands-bit: 0: OFF 1: Running command 2: Given frequency 3: Output frequency 4: Upper limit frequency 5: Given torque 6: Output torque 7: Reserved 8: Reserved 9: PID setting A: PID feedback B: Reserved C: Active current component	0x0031 (0x0000~0xCCCC)	RUN
F12.11 (0x0C0B)	User-Defined Frequency Address	V/F SVC FVC PMV/F PMSVC PMFVC User-defined address to give frequency, compatible with the upper computer (PLC) command.	0x0000 (0x0000~0xFFFF)	RUN
F12.12 (0x0C0C) RUN	User-Defined Command Address	V/F SVC FVC PMV/F PMSVC PMFVC User-defined address to give command, compatible with upper computer (PLC) command.	0x0000 (0x0000~0xFFFF)	RUN
F12.13 (0x0C0D)	FWD Command Value	V/F SVC FVC PMV/F PMSVC PMFVC User-defined address to forward running command value.	0x0001 (0x0000~0x00FF)	RUN
F12.14 (0x0C0E)	REV Command Value	V/F SVC FVC PMV/F PMSVC PMFVC User-defined address to reverse running command value.	0x0002 (0x0000~0x00FF)	RUN
F12.15 (0x0C0F)	Stop Command Value	V/F SVC FVC PMV/F PMSVC PMFVC User-defined address to stop command value.	0x0005 (0x0000~0x00FF)	RUN
F12.16 (0x0C10)	Reset Command Value	V/F SVC FVC PMV/F PMSVC PMFVC User-defined address to reset command value.	0x0007 (0x0000~0x00FF)	RUN
F12.19 (0x0C13)	Master Command	V/F SVC FVC PMV/F PMSVC PMFVC Set the master command. 0: Running command 1: Running status	0 (0~1)	RUN

F12.3x: Continuous Read/Write for Discontinuous Addresses

Code (Address)	Name	Content	Default (Range)	Property
F12.30 (0x0C1E)	IP Address 1	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0xFFFF (0x0000~0xFFFF)	RUN
F12.31 (0x0C1F)	IP Address 2	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~0xFFFF)	RUN
F12.32 (0x0C20)	IP Address 3	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~0xFFFF)	RUN
F12.33 (0x0C21)	IP Address 4	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~0xFFFF)	RUN
F12.34 (0x0C22)	IP Address 5	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~0xFFFF)	RUN

			0xFFFF)	
F12.35 (0x0C23)	IP Address 6	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~ 0xFFFF)	RUN
F12.36 (0x0C24)	IP Address 7	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~ 0xFFFF)	RUN
F12.37 (0x0C25)	IP Address 8	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~ 0xFFFF)	RUN
F12.38 (0x0C26)	IP Address 9	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~ 0xFFFF)	RUN
F12.39 (0x0C27)	IP Address 10	V/F SVC FVC PMV/F PMSVC PMFVC Users fill in the parameter address as needed.	0x0000 (0x0000~ 0xFFFF)	RUN

4.16 F13: PID Control

F13.00~F13.06: PID Setting and Feedback

Code (Address)	Name	Content	Default (Range)	Property
F13.00 (0x0D00)	PID Controller Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 7: Reserved (0x31 group) 8: Reserved 9: Reserved 10: Reserved 11: Reserved 12: Reserved 13: Reserved 14: Terminal 15: Active current given via communication 16: AI1+AI2 17: AI1-AI2 18: MAX. [AI1, AI2] 19: MIN. [AI1, AI2] Others: Connector (detailed in Chapter 7)	0 (0~65535)	RUN
F13.01 (0x0D01)	PID Setting/Feed back	V/F SVC FVC PMV/F PMSVC PMFVC Set the PID setting/feedback via keypad.	50.0% (0.0%~100.0%)	RUN
F13.02 (0x0D02)	PID Setting Change Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the PID setting change time, the time for 0% to 100% increase or 100% to 0% decrease.	1.00s (0.00s~60.00s)	RUN
F13.03 (0x0D03)	PID Feedback Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 7: Reserved (0x31 group)	2 (0~65535)	RUN

		8: Reserved 9: Reserved 10: Reserved 11: Reserved 12: Reserved 13: Reserved 14: Terminal 15: Active current given via communication 16: AI1+AI2 17: AI1-AI2 18: MAX. [AI1, AI2] 19: MIN. [AI1, AI2] Others: Connector (detailed in Chapter 7)		
F13.04 (0x0D04)	Feedback Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the feedback signal low-pass filter time.	0.010s (0.000s~6.000s)	RUN
F13.05 (0x0D05)	Feedback Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the feedback gain.	1.00 (0.00~10.00)	RUN
F13.06 (0x0D06)	Feedback Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the feedback range.	100.0 (0.0~100.0)	RUN

F13.07~F13.24: PID Control

Code (Address)	Name	Content	Default (Range)	Property
F13.07 (0x0D07)	PID Characteristic	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Feedback characteristics 0: Positive 1: Negative Tens-bit: Reserved Hundreds-bit: Reserved Thousands-bit: Differential regulation 0: Differential for deviation 1: Differential for feedback	0x0100 (0x0000~0x1111)	RUN
F13.08 (0x0D08)	PID Preset Output	V/F SVC FVC PMV/F PMSVC PMFVC Set the PID preset output, 100% of the max. frequency output.	100.0% (0.0%~100.0%)	RUN
F13.09 (0x0D09)	PID Preset Time	V/F SVC FVC PMV/F PMSVC PMFVC Upon PID activation, the output adheres to the preset value for a specified duration before shifting to closed-loop control.	0.0s (0.0s~6500.0s)	RUN
F13.10 (0x0D0A)	PID Deviation Limit	V/F SVC FVC PMV/F PMSVC PMFVC The max. allowable deviation of PID feedback from the PID setting; when feedback is within this range, PID control halts, maintaining constant output. This feature aids in balancing system output precision and stability.	0.0% (0.0%~100.0%)	RUN
F13.11 (0x0D0B) RUN	Proportional Gain P1	V/F SVC FVC PMV/F PMSVC PMFVC Determines the strength of the PID controller; higher gain increases strength but may cause oscillation.	0.100 (0.000~4.000)	RUN
F13.12 (0x0D0C)	Integral Time I1	V/F SVC FVC PMV/F PMSVC PMFVC Sets the strength of the integral action; shorter times increase strength. An integral time of 0 disables PID control.	1.0s (0.0s~600.0s)	RUN
F13.13 (0x0D0D)	Differential Time D1	V/F SVC FVC PMV/F PMSVC PMFVC Controls the response to the rate of change in bias or feedback, adjusting based on trends to suppress feedback changes.	0.000s (0.000s~6.000s)	RUN
F13.14 (0x0D0E)	Proportional Gain P2	V/F SVC FVC PMV/F PMSVC PMFVC Determines the strength of the PID controller; higher	0.100 (0.000~4.000)	RUN

		gain increases strength but may cause oscillation.		
F13.15 (0x0D0F)	Integral Time I2	V/F SVC FVC PMV/F PMSVC PMFVC Sets the strength of the integral action; shorter times increase strength. An integral time of 0 disables PID control.	1.0s (0.0s~600.0s)	RUN
F13.16 (0x0D10)	Differential Time D2	V/F SVC FVC PMV/F PMSVC PMFVC Controls the response to the rate of change in deviation or feedback, adjusting based on trends to suppress feedback changes.	0.000s (0.000s~6.000s)	RUN
F13.17 (0x0D11)	PID Shift Condition	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Switch via DI terminals 2: Switch according to deviation 3: Switch according to frequency	0 (0~3)	RUN
F13.18 (0x0D12)	Shift Deviation Low	V/F SVC FVC PMV/F PMSVC PMFVC Gain 1 parameter is used when the PID deviation is lower than this value.	20.0% (0.0%~100.0%)	RUN
F13.19 (0x0D13)	Shift Deviation High	V/F SVC FVC PMV/F PMSVC PMFVC Gain 2 parameter is used when the PID deviation is greater than this value.	80.0% (0.0%~100.0%)	RUN
F13.21 (0x0D15)	Differentiati on Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the range of the PID differential output. The PID differential control is sensitive and can cause system oscillation, so it's typically limited to a small range.	5.0% (0.0%~100.0%)	RUN
F13.22 (0x0D16)	PID Max. Output	V/F SVC FVC PMV/F PMSVC PMFVC Restricts the max. value of PID output.	100.0% (0.0%~100.0%)	RUN
F13.23 (0x0D17)	PID Min. Output	V/F SVC FVC PMV/F PMSVC PMFVC Restricts the min. value of PID output.	0.0% (-100.0%~ F13.22)	RUN
F13.24 (0x0D18)	PID Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC The PID output filter smooths the control signal, preventing abrupt changes that could degrade the closed-loop system's performance.	0.000s (0.000s~6.000s)	RUN

F13.25~F13.28: PID Feedback Break

Code (Address)	Name	Content	Default (Range)	Property
F13.25 (0x0D19)	Feedback Break Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Continue PID operation without reporting error 1: Stop and report error 2: Continue PID operation, and report alarm 3: Run at current frequency, and report alarm	0 (0~3)	RUN
F13.26 (0x0D1A)	Feedback Break Time	V/F SVC FVC PMV/F PMSVC PMFVC In drive operation, if the feedback signal exceeds the upper or lower disconnection alarm thresholds and continues for the specified delay, the sensor is considered disconnected.	1.0s (0.0s~120.0s)	RUN
F13.27 (0x0D1B)	Feedback Break Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the upper limit for PID sensor disconnection detection. If the feedback signal exceeds this value and continues for F13.26, the sensor is considered disconnected.	100.0% (0.0%~100.0%)	RUN
F13.28 (0x0D1C)	Feedback Break Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit for PID sensor disconnection detection. If the feedback signal is below this value and continues for F13.26, the sensor is considered disconnected.	0.0% (0.0%~100.0%)	RUN

F13.29~F13.33: Sleep

Code (Address)	Name	Content	Default (Range)	Property
F13.29 (0x0D1D)	Sleep	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	RUN
F13.30 (0x0D1E)	Sleep Frequency	V/F SVC FVC PMV/F PMSVC PMFVC When the sleep function is valid, if the PID output frequency drops below the sleep frequency, the system initiates sleep judgment.	10.00Hz (0.00Hz~Max. frequency)	RUN
F13.31 (0x0D1F)	Sleep Delay	V/F SVC FVC PMV/F PMSVC PMFVC Upon sleep judgment, the system enters sleep mode after a delay (i.e., reducing speed to zero frequency and blocking output).	60.0s (0.0s~3600.0s)	RUN
F13.32 (0x0D20)	Wakeup Deviation	V/F SVC FVC PMV/F PMSVC PMFVC When PID feedback is positive: If the PID setting minus the wake deviation is continuously greater than the PID feedback, the system exits sleep mode and enters normal operation after the wake delay. When PID feedback is negative: If the PID setting plus the wake deviation is continuously greater than the PID feedback, the system exits sleep mode and enters normal operation after the wake delay.	5.0% (0.0%~50.0%)	RUN
F13.33 (0x0D21)	Wakeup Delay	V/F SVC FVC PMV/F PMSVC PMFVC Once wake conditions are met, the system exits sleep mode and enters normal operation after the wake delay.	1.0s (0.0s~60.0s)	RUN
F13.34 (0x0D22)	PID Disable	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	RUN
F13.35 (0x0D23)	Wakeup Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Deviation wake	0 (0~2)	RUN

		1: Frequency wake 2: Deviation or frequency wake		
F13.36 (0x0D24)	Wakeup Frequency	V/F SVC FVC PMV/F PMSVC PMFVC When the frequency wake is valid, if the PID output frequency exceeds the wake frequency, the system enters wake judgment.	20.00Hz (0.00Hz~Max. frequency)	RUN
F13.37 (0x0D25)	Shift Frequency Low	V/F SVC FVC PMV/F PMSVC PMFVC When F13.17=3, signifying frequency-based PID shift, the PID parameters are set to Group 1 if the output frequency falls below the low frequency threshold.	0.00Hz (0.00Hz~Max. frequency)	RUN
F13.38 (0x0D26)	Shift Frequency High	V/F SVC FVC PMV/F PMSVC PMFVC When F13.17=3, signifying frequency-based PID shift, the PID parameters are set to Group 2 if the output frequency exceeds the high frequency threshold.	0.00Hz (0.00Hz~Max. frequency)	RUN

4.17 F14: Simulated PLC for Multi-frequency

F14.00~F14.14: Multi-frequency Setting

Code (Address)	Name	Content	Default (Range)	Property
F14.00 (0x0E00)	PLC Multi-freque ncy 1	V/F SVC FVC PMV/F PMSVC PMFVC This group of parameters is used to set the operating frequency of the 1st segment speed in PLC program and multi-frequency control.	10.00Hz (0.00Hz~Max. frequency)	RUN
F14.01 (0x0E01)	PLC Multi-freque ncy 2	V/F SVC FVC PMV/F PMSVC PMFVC This group of parameters is used to set the operating frequency of the 2nd segment speed in PLC program and multi-frequency control.	20.00Hz (0.00Hz~Max. frequency)	RUN
F14.02 (0x0E02)	PLC Multi-freque ncy 3	V/F SVC FVC PMV/F PMSVC PMFVC This group of parameters is used to set the operating frequency of the 3rd segment speed in PLC program and multi-frequency control.	30.00Hz (0.00Hz~Max. frequency)	RUN
F14.03 (0x0E03)	PLC Multi-freque ncy 4	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 4th segment speed in PLC program and multi-frequency control.	40.00Hz (0.00Hz~Max. frequency)	RUN
F14.04 (0x0E04)	PLC Multi-freque ncy 5	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 5th segment speed in PLC program and multi-frequency control.	50.00Hz (0.00Hz~Max. frequency)	RUN
F14.05 (0x0E05)	PLC Multi-freque ncy 6	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 6th segment speed in PLC program and multi-frequency control.	40.00Hz (0.00Hz~Max. frequency)	RUN
F14.06 (0x0E06)	PLC Multi-freque ncy 7	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 7th segment speed in PLC program and multi-frequency control.	30.00Hz (0.00Hz~Max. frequency)	RUN
F14.07 (0x0E07)	PLC Multi-freque ncy 8	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 8th segment speed in PLC program and multi-frequency control.	20.00Hz (0.00Hz~Max. frequency)	RUN
F14.08 (0x0E08)	PLC Multi-freque ncy 9	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 9th segment speed in PLC program and multi-frequency control.	10.00Hz (0.00Hz~Max. frequency)	RUN
F14.09	PLC	V/F SVC FVC PMV/F PMSVC PMFVC	20.00Hz	RUN

(0x0E09)	Multi-frequency 10	This parameters is used to set the operating frequency of the 10th segment speed in PLC program and multi-frequency control.	(0.00Hz~Max. frequency)	
F14.10 (0x0E0A)	PLC Multi-frequency 11	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 11th segment speed in PLC program and multi-frequency control.	30.00Hz (0.00Hz~Max. frequency)	RUN
F14.11 (0x0E0B)	PLC Multi-frequency 12	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 12th segment speed in PLC program and multi-frequency control.	40.00Hz (0.00Hz~Max. frequency)	RUN
F14.12 (0x0E0C)	PLC Multi-frequency 13	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 13th segment speed in PLC program and multi-frequency control.	50.00Hz (0.00Hz~Max. frequency)	RUN
F14.13 (0x0E0D)	PLC Multi-frequency 14	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 14th segment speed in PLC program and multi-frequency control.	40.00Hz (0.00Hz~Max. frequency)	RUN
F14.14 (0x0E0E)	PLC Multi-frequency 15	V/F SVC FVC PMV/F PMSVC PMFVC This parameters is used to set the operating frequency of the 15th segment speed in PLC program and multi-frequency control.	30.00Hz (0.00Hz~Max. frequency)	RUN

F14.15: PLC Operation Mode

Code (Address)	Name	Content	Default (Range)	Property
F14.15 (0x0E0F)	Operation Mode	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Cycle mode 0: Stop after single cycle 1: Cycle continuously 2: Hold final value after single cycle Tens-bit: Timing unit 0: second (s) 1: minute (m) 2: hour (h) Hundreds-bit: Power-down save 0: OFF 1: ON Thousands-bit: Start mode 0: Restart from the first stage 1: Restart from the stage upon stop last time 2: Continue operation for the remaining of the stop stage	0x0000 (0x0000~0x2122)	RUN

F14.16~F14.30: PLC Runtime

Code (Address)	Name	Content	Default (Range)	Property
F14.16 (0x0E10)	1 st Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 1 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.17 (0x0E11)	2 nd Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 2 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.18 (0x0E12)	3 rd Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 3 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.19	4 th Stage	V/F SVC FVC PMV/F PMSVC PMFVC	10.0 (s/m/h)	RUN

(0x0E13)	Runtime	Set the stage 4 runtime by PLC.	(0.0 (s/m/h) ~ 6500.0 (s/m/h))	
F14.20 (0x0E14)	5 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 5 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.21 (0x0E15)	6 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 6 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.22 (0x0E16)	7 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 7 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.23 (0x0E17)	8 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 8 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.24 (0x0E18)	9 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 9 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.25 (0x0E19)	10 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 10 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.26 (0x0E1A)	11 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 11 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.27 (0x0E1B)	12 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 12 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.28 (0x0E1C)	13 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 13 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.29 (0x0E1D)	14 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 14 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN
F14.30 (0x0E1E)	15 th Stage Runtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the stage 15 runtime by PLC.	10.0 (s/m/h) (0.0 (s/m/h) ~ 6500.0 (s/m/h))	RUN

F14.31~14.45: PLC Direction and ACC/DEC Time

Code (Address)	Name	Content	Default (Range)	Property
F14.31 (0x0E1F)	1 st Direction and ACC/DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Direction of the current stage(compared with operation command) 0: Same 1: Opposite Tens-bit: Acceleration/deceleration time of the current stage 0: ACC/DEC time 1 1: ACC/DEC time 2 2: ACC/DEC time 3 3: ACC/DEC time 4 Hundreds-bit: Reserved Thousands-bit: Reserved	0x0000 (0x0000~0x0031)	RUN
F14.32 (0x0E20)	2 nd Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.33 (0x0E21)	3 rd Direction and	The same as F14.31.	0x0000 (0x0000~	RUN

	ACC/DEC Time		0x0031)	
F14.34 (0x0E22)	4 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.35 (0x0E23)	5 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.36 (0x0E24)	6 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.37 (0x0E25)	7 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.38 (0x0E26)	8 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.39 (0x0E27)	9 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.40 (0x0E28)	10 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.41 (0x0E29)	11 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.42 (0x0E2A)	12 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.43 (0x0E2B)	13 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.44 (0x02C)	14 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN
F14.45 (0x0E2D)	15 th Direction and ACC/DEC Time	The same as F14.31.	0x0000 (0x0000~0x0031)	RUN

4.18 F15: Torque Control

F15.0x: Torque

Code (Address)	Name	Content	Default (Range)	Property
F15.00 (0x0F00)	Torque Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: Torque limit under speed control 1: Speed limit under motor 1 torque control 2: Speed limit under motor 2 torque control 3: Speed limit under motor 3 torque control 4: Speed limit under motor 4 torque control	0 (0~4)	RUN
F15.01 (0x0F01)	Torque Reference Source A	V/F SVC FVC PMV/F PMSVC PMFVC 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 7: Extension Others: Connector	0 (0~65535)	RUN
F15.02 (0x0F02)	Torque Reference Source B	V/F SVC FVC PMV/F PMSVC PMFVC 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 7: Extension Others: Connector	0 (0~65535)	RUN
F15.03 (0x0F03)	Torque Source Combination	V/F SVC FVC PMV/F PMSVC PMFVC 0: Source A 1: Source B 2: Source A+Source B 3: Source A-Source B 4: MIN (A, B) 5: MAX (A, B)	0 (0~15)	RUN
F15.04 (0x0F04)	Torque Source	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque command via keypad.	0.0% (0.0%~100.0%)	RUN
F15.05 (0x0F05)	Torque Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque input lower limit.	0.00% (0.00%~100.00%)	RUN
F15.06 (0x0F06)	Torque Lower Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque lower limit percentage.	0.00% (-250.00%~300.00%)	RUN
F15.07 (0x0F07)	Torque Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque input upper limit.	100.00% (0.00%~100.00%)	RUN
F15.08 (0x0F08)	Torque Upper Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque upper limit percentage.	100.00% (-250.00%~300.00%)	RUN
F15.09 (0x0F09)	Torque Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed.	0.100s (0.000s~6.000s)	RUN

F15.1x~F15.2x: Torque Control

Code	Name	Content	Default	Property
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(Address)			(Range)	
F15.10 (0x0F0A)	Max. Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the max. given torque.	150.0% (0.0%~ 250.0%)	RUN
F15.11 (0x0F0B)	Min. Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. given torque.	0.0% (0.0%~ 250.0%)	RUN
F15.12 (0x0F0C)	FWD Speed Limit	V/F SVC FVC PMV/F PMSVC PMFVC 0: F15.14 1: Reserved 2: AI1×F15.14 3: AI2×F15.14 4: Reserved 5: PUL×F15.14 6: RS485 communication×F15.14 7: Extension×F15.14 Others: Connector (detailed in Chapter 7)	0 (0~15)	RUN
F15.13 (0x0F0D)	REV Speed Limit	V/F SVC FVC PMV/F PMSVC PMFVC 0: F15.14 1: Reserved 2: AI1×F15.14 3: AI2×F15.14 4: Reserved 5: PUL×F15.14 6: RS485 communication×F15.14 7: Extension×F15.14 Others: Connector (detailed in Chapter 7)	0 (0~15)	RUN
F15.14 (0x0F0E)	Max. FWD Speed	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque controlled max. forward speed.	100.0% (0.0%~ 100.0%)	RUN
F15.15 (0x0F0F)	Max. REV Speed	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque controlled max. reverse speed.	100.0% (0.0%~ 100.0%)	RUN
F15.16 (0x0F10)	Torque ACC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque acceleration time.	0.00 (0.00~650.00)	RUN
F15.17 (0x0F11)	Torque DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque deceleration time.	0.00 (0.00~650.00)	RUN
F15.20 (0x0F14)	Torque Gain Shift Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the given torque gain shift frequency.	2.00Hz (0.00Hz~Max . frequency)	RUN
F15.21 (0x0F15)	Torque Shift Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the given torque shift gain.	100.0% (0.0%~ 500.0%)	RUN

4.19 F16: Auxiliary Function 1

F16.0x: Counting and Timing

Code (Address)	Name	Content	Default (Range)	Property
F16.00 (0x1000)	Counter Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: Common X terminal 1: PUL terminal 2: PG card	0 (0~5)	RUN
F16.01 (0x1001)	Counter Division	V/F SVC FVC PMV/F PMSVC PMFVC Set the counting division for input.	0 (0~6000)	RUN
F16.02 (0x1002)	Max. Counting	V/F SVC FVC PMV/F PMSVC PMFVC Set the max. value for the counting circuit.	1000 (0~65000)	RUN
F16.03	Counter	V/F SVC FVC PMV/F PMSVC PMFVC	500	RUN

(0x1003)	Setting	Set the value for the counting circuit.	(0~65000)	
F16.04 (0x1004)	Pulse No. Per Meter	V/F SVC FVC PMV/F PMSVC PMFVC Set the counting value per meter.	10.0 (0.1~6553.5)	RUN
F16.05 (0x1005)	Length	V/F SVC FVC PMV/F PMSVC PMFVC Increase the length to output, while reset when one terminal length is reached.	1000m (0m~65535m)	RUN
F16.06 (0x1006)	Actual Length	V/F SVC FVC PMV/F PMSVC PMFVC This is not saved during power down by default, but can be changed on setting.	0m (0m~65535m)	RUN
F16.07 (0x1007)	Timer Unit	V/F SVC FVC PMV/F PMSVC PMFVC 0: Second (s) 1: Minute (min) 2: Hour (h)	0 (0~2)	RUN
F16.08 (0x1008)	Timer	V/F SVC FVC PMV/F PMSVC PMFVC Set the value for timing.	0 (0~65000)	RUN

F16.1x: Wobble Frequency

Code (Address)	Name	Content	Default (Range)	Property
F16.10 (0x100A)	Wobble Frequency	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	STOP
F16.11 (0x100B)	Wobble Frequency Control	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Start method 0: Auto 1: Manual via terminal Tens-bit: Wobble frequency range 0: Center frequency-based 1: Max. frequency-based Hundreds-bit: Preset frequency 0: OFF 1: ON	0x0000 (0x0000~0x0111)	STOP
F16.12 (0x100C)	Preset Wobble Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the preset wobble frequency.	0.00Hz (0.00Hz~Max. frequency)	STOP
F16.13 (0x100D)	Wobble Frequency Preset Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the preset wobble frequency waiting time.	0.0s (0.0s~3600.0s)	STOP
F16.14 (0x100E)	Wobble Frequency Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the wobble frequency range.	10.0% (0.0%~50.0%)	STOP
F16.15 (0x100F)	Wobble Frequency Jump Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the wobble frequency jump range.	10.0Hz (0.0Hz~50.0Hz)	STOP
F16.16 (0x1010)	Wobble ACC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the wobble acceleration time.	5.00s (0.01s~650.00s)	STOP
F16.17 (0x1011)	Wobble DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the wobble deceleration time.	5.00s (0.01s~650.00s)	STOP

F16.4x: Frequency Detection

Code (Address)	Name	Content	Default (Range)	Property
F16.40 (0x1028)	Frequency Level 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency detection level 1.	2.00Hz (0.00Hz~Max. frequency)	RUN
F16.41 (0x1029)	Frequency Range 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency detection range 1.	1.00Hz (0.00Hz~Max. frequency)	RUN
F16.42 (0x102A)	Frequency Level 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency detection level 2.	2.00Hz (0.00Hz~Max. frequency)	RUN
F16.43 (0x102B)	Frequency Range 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency detection range 2.	1.00Hz (0.00Hz~Max. frequency)	RUN
F16.44 (0x102C)	Frequency Arrival Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the detection range of the given frequency.	2.00Hz (0.00Hz~50.00Hz)	RUN

F16.5x~F16.6x: Comparator

Code (Address)	Name	Content	Default (Range)	Property
F16.50 (0x1032)	Comparator 1 Item	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in monitor parameter Cxx.yy. Hundreds- and thousands-bit: Set 00~07 to xx in monitor parameter Cxx.yy.	0001 (0000~1599)	RUN
F16.51 (0x1033)	Comparator 1 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the comparator 1 upper limit.	3000 (0~65535)	RUN
F16.52 (0x1034)	Comparator 1 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the comparator 1 lower limit.	0 (0~65535)	RUN
F16.53 (0x1035)	Comparator 1 Bias	V/F SVC FVC PMV/F PMSVC PMFVC Set the comparator 1 bias value.	0 (0~10000)	RUN
F16.55 (0x1037)	Comparator 2 Item	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in monitor parameter Cxx.yy. Hundreds- and thousands-bit: Set 00~07 to xx in monitor parameter Cxx.yy.	0x0002 (0x0000~0x1599)	RUN
F16.56 (0x1038)	Comparator 2 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the upper limit of Comparator 2.	30 (0~65535)	RUN
F16.57 (0x1039)	Comparator 2 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit of Comparator 2.	0 (0~65535)	RUN
F16.58 (0x103A)	Comparator 2 Bias	V/F SVC FVC PMV/F PMSVC PMFVC Set the comparator 2 bias value.	0 (0~65535)	RUN
F16.60 (0x103C)	Comparator 3 Item	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the monitor parameter Cxx.yy Hundreds- and thousands-bit: Set 00~07 to xx in the monitor parameter Cxx.yy	0001 (0000~1599)	RUN
F16.61 (0x103D)	Comparator 3 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the upper limit of Comparator 3.	3000 (0~65535)	RUN
F16.62 (0x103E)	Comparator 3 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit of Comparator 3.	0 (0~65535)	RUN
F16.63 (0x103F)	Comparator 3 Bias	V/F SVC FVC PMV/F PMSVC PMFVC Set the comparator 3 bias value.	0 (0~10000)	RUN
F16.65 (0x1041)	Comparator 4 Item	V/F SVC FVC PMV/F PMSVC PMFVC Ones- and tens-bit: Set 00~63 to yy in the monitor	0x0002 (0x0000~	RUN

		parameter Cxx.yy Hundreds- and thousands-bit: Set 00~07 to xx in the monitor parameter Cxx.yy	0x1599)	
F16.66 (0x1042)	Comparator 4 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the upper limit of Comparator 4.	30 (0~65535)	RUN
F16.67 (0x1043)	Comparator 4 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the comparator 4 bias value.	0 (0~65535)	RUN
F16.68 (0x1044)	Comparator 4 Bias	V/F SVC FVC PMV/F PMSVC PMFVC Set the comparator 4 bias value.	0 (0~65535)	RUN

4.20 F25: Factory Calibration

F25.00~F25.11: AI1 Correction

Set F07.00 for voltage or current input. Set F7.00 to "0" for voltage input and to "1" for current input.

Code (Address)	Name	Content	Default (Range)	Property
F25.00 (0x1900)	AI1 Measured Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction voltage, enter the measured value into this parameter.	0.500V (0.000V~3.000V)	RUN
F25.01 (0x1901)	AI1 Monitored Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction voltage, enter the C05.60 value into this parameter.	0.500V (0.000V~3.000V)	RUN
F25.02 (0x1902)	AI1 Measured Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction voltage, enter the measured value into this parameter.	5.000V (0.000V~7.000V)	RUN
F25.03 (0x1903)	AI1 Monitored Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction voltage, enter the C05.60 value into this parameter.	5.000V (0.000V~7.000V)	RUN
F25.04 (0x1904)	AI1 Measured Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction voltage, enter the measured value into this parameter.	9.500V (0.000V~11.000V)	RUN
F25.05 (0x1905)	AI1 Monitored Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction voltage, enter the C05.60 value into this parameter.	9.500V (0.000V~11.000V)	RUN
F25.06 (0x1906)	AI1 Measured Current 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction current, enter the measured value into this parameter.	1.000mA (0.000mA~6.000mA)	RUN
F25.07 (0x1907)	AI1 Monitored Current 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction current, enter the C05.60 value into this parameter.	1.000mA (0.000mA~6.000mA)	RUN
F25.08 (0x1908)	AI1 Measured Current 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction current, enter the measured value into this parameter.	10.000mA (0.000mA~14.000mA)	RUN
F25.09 (0x1909)	AI1 Monitored Current 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction current, enter the C05.60 value into this parameter.	10.000mA (0.000mA~14.000mA)	RUN
F25.10 (0x190A)	AI1 Measured Current 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction current, enter the measured value into this parameter.	19.000mA (0.000mA~21.000mA)	RUN
F25.11 (0x190B)	AI1 Monitored Current 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction current, enter the C05.60 value into this parameter.	19.000mA (0.000mA~21.000mA)	RUN

F25.12~F25.23: AI2 Correction

Set F07.00 for voltage or current input. Set F07.00 to "0" for voltage input and to "1" for current input.

Code (Address)	Name	Content	Default (Range)	Property
F25.12 (0x190C)	AI2 Measured Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction voltage, enter the measured value into this parameter.	0.500V (0.000V~3.000V)	RUN
F25.13 (0x190D)	AI2 Monitored Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction voltage, enter the C05.61 value into this parameter.	0.500V (0.000V~3.000V)	RUN
F25.14 (0x190E)	AI2 Measured Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction voltage, enter the measured value into this parameter.	5.000V (0.000V~7.000V)	RUN
F25.15 (0x190F)	AI2 Monitored Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction voltage, enter the C05.61 value into this parameter.	5.000V (0.000V~7.000V)	RUN
F25.16 (0x1910)	AI2 Measured Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction voltage, enter the measured value into this parameter.	9.500V (0.000V~11.000V)	RUN
F25.17 (0x1911)	AI2 Monitored Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction voltage, enter the C05.61 value into this parameter.	9.500V (0.000V~11.000V)	RUN
F25.18 (0x1912)	AI2 Measured Current 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction current, enter the measured value into this parameter.	1.000mA (0.000mA~6.000mA)	RUN
F25.19 (0x1913)	AI2 Monitored Current 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction current, enter the C05.61 value into this parameter.	1.000mA (0.000mA~6.000mA)	RUN
F25.20 (0x1914)	AI2 Measured Current 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction current, enter the measured value into this parameter.	10.000mA (0.000mA~14.000mA)	RUN
F25.21 (0x1915)	AI2 Monitored Current 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction current, enter the C05.61 value into this parameter.	10.000mA (0.000mA~14.000mA)	RUN
F25.22 (0x1916)	AI2 Measured Current 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction current, enter the measured value into this parameter.	19.000mA (0.000mA~21.000mA)	RUN
F25.23 (0x1917)	AI2 Monitored Current 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction current, enter the C05.61 value into this parameter.	19.000mA (0.000mA~21.000mA)	RUN

F25.24~F25.35: AO1 Correction

Set F08.00 for voltage or current input. Set F08.00 to "0" for voltage input and to "1" for current input.

Code (Address)	Name	Content	Default (Range)	Property
F25.24 (0x1918)	AO1 Set Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction voltage, enter the measured value into this parameter.	0.500V (0.000V~3.000V)	RUN
F25.25 (0x1919)	AO1 Measured Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction voltage, enter the C05.62 value into this parameter.	0.500V (0.000V~3.000V)	RUN
F25.26 (0x191A)	AO1 Set Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction voltage, enter the measured value into this parameter.	5.000V (0.000V~7.000V)	RUN
F25.27 (0x191B)	AO1 Measured Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction voltage, enter the C05.62 value into this parameter.	5.000V (0.000V~7.000V)	RUN
F25.28 (0x191C)	AO1 Set Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction voltage, enter the measured value into this parameter.	9.500V (0.000V~11.000V)	RUN

F25.29 (0x191D)	AO1 Measured Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction voltage, enter the C05.62 value into this parameter.	9.500V (0.000V~ 11.000V)	RUN
F25.30 (0x191E)	AO1 Set Current 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction current, enter the measured value into this parameter.	1.000mA (0.000mA~ 6.000mA)	RUN
F25.31 (0x191F)	AO1 Measured Current 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction current, enter the C05.62 value into this parameter.	1.000mA (0.000mA~ 6.000mA)	RUN
F25.32 (0x1920)	AO1 Set Current 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction current, enter the measured value into this parameter.	10.000mA (0.000mA~ 14.000mA)	RUN
F25.33 (0x1921)	AO1 Measured Current 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction current, enter the C05.62 value into this parameter.	10.000mA (0.000mA~ 14.000mA)	RUN
F25.34 (0x1922)	AO1 Set Current 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction current, enter the measured value into this parameter.	19.000mA (0.000mA~ 21.000mA)	RUN
F25.35 (0x1923)	AO1 Measured Current 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction current, enter the C05.62 value into this parameter.	19.000mA (0.000mA~ 21.000mA)	RUN

F25.36~F25.47: AO2 Correction

Set F08.00 for voltage or current input. F08.00 Set to "0" for voltage input and set to "1" for current input.

Code (Address)	Name	Content	Default (Range)	Property
F25.24 (0x1918)	AO2 Set Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction voltage, enter the measured value into this parameter.	0.500V (0.000V~ 3.000V)	RUN
F25.25 (0x1919)	AO2 Measured Voltage 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction voltage, enter the C05.63 value into this parameter.	0.500V (0.000V~ 3.000V)	RUN
F25.26 (0x191A)	AO2 Set Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction voltage, enter the measured value into this parameter.	5.000V (0.000V~ 7.000V)	RUN
F25.27 (0x191B)	AO2 Measured Voltage 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction voltage, enter the C05.63 value into this parameter.	5.000V (0.000V~ 7.000V)	RUN
F25.28 (0x191C)	AO2 Set Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction voltage, enter the measured value into this parameter.	9.500V (0.000V~ 11.000V)	RUN
F25.29 (0x191D)	AO2 Measured Voltage 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction voltage, enter the C05.63 value into this parameter.	9.500V (0.000V~ 11.000V)	RUN
F25.30 (0x191E)	AO2 Set Current 1	V/F SVC FVC PMV/F PMSVC PMFVC 1 st correction current, enter the measured value into this parameter.	1.000mA (0.000mA~ 6.000mA)	RUN
F25.31 (0x191F)	AO2 Measured Current 1	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 1 st correction current, enter the C05.63 value into this parameter.	1.000mA (0.000mA~ 6.000mA)	RUN
F25.32 (0x1920)	AO2 Set Current 2	V/F SVC FVC PMV/F PMSVC PMFVC 2 nd correction current, enter the measured value into this parameter.	10.000mA (0.000mA~ 14.000mA)	RUN
F25.33 (0x1921)	AO2 Measured Current 2	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 2 nd correction current, enter the C05.63 value into this parameter.	10.000mA (0.000mA~ 14.000mA)	RUN
F25.34 (0x1922)	AO2 Set Current 3	V/F SVC FVC PMV/F PMSVC PMFVC 3 rd correction current, enter the measured value into this	19.000mA (0.000mA~	RUN

		parameter.	21.000mA)	
F25.35 (0x1923)	AO2 Measured Current 3	V/F SVC FVC PMV/F PMSVC PMFVC Monitoring value of 3 rd correction current, enter the C05.63 value into this parameter.	19.000mA (0.000mA~ 21.000mA)	RUN

4.21 A00: Default Parameters

Code (Address)	Name	Content	Default (Range)	Property
A00.00 (0x4000)	Default Parameter Customization	V/F SVC FVC PMV/F PMSVC PMFVC Set the custom default parameter functions.	0 (0~1)	STOP
A00.01 (0x4001)	Funcode 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	RUN
A00.02 (0x4002)	Default 1	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.03 (0x4003)	Funcode 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	RUN
A00.04 (0x4004)	Default 2	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.05 (0x4005)	Funcode 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	RUN
A00.06 (0x4006)	Default 3	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.07 (0x4007)	Funcode 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	RUN
A00.08 (0x4008)	Default 4	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.09 (0x4009)	Funcode 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	RUN
A00.10 (0x400A)	Default 5	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.11 (0x400B)	Funcode 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	STOP
A00.12 (0x400C)	Default 6	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.13 (0x400D)	Funcode 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	STOP
A00.14 (0x400E)	Default 7	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.15 (0x400F)	Funcode 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	STOP
A00.16 (0x4010)	Default 8	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.17 (0x4011)	Funcode 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~ 0x2999)	STOP
A00.18 (0x4012)	Default 9	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP

A00.19 (0x4013)	Funcode 10	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	STOP
A00.20 (0x4014)	Default 10	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.21 (0x4015)	Funcode 11	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	RUN
A00.22 (0x4016)	Default 11	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.23 (0x4017)	Funcode 12	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	RUN
A00.24 (0x4018)	Default 12	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.25 (0x4019)	Funcode 13	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	RUN
A00.26 (0x401A)	Default 13	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.27 (0x401B)	Funcode 14	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	RUN
A00.28 (0x401C)	Default 14	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.29 (0x401D)	Funcode 15	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	RUN
A00.30 (0x401E)	Default 15	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.31 (0x401F)	Funcode 16	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	STOP
A00.32 (0x4020)	Default 16	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.33 (0x4021)	Funcode 17	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	RUN
A00.34 (0x4022)	Default 17	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.35 (0x4023)	Funcode 18	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	STOP
A00.36 (0x4024)	Default 18	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	STOP
A00.37 (0x4025)	Funcode 19	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	STOP
A00.38 (0x4026)	Default 19	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN
A00.39 (0x4027)	Funcode 20	V/F SVC FVC PMV/F PMSVC PMFVC Set the xx.yy of the function code; e.g., for F01.09, set it to 0109.	0x0000 (0x0000~0x2999)	RUN
A00.40 (0x4028)	Funcode 20	V/F SVC FVC PMV/F PMSVC PMFVC The default value is the selected function code value.	0 (0~65535)	RUN

4.22 d00: Motor Parameters

d00.0x: Motor Control

Code (Address)	Name	Content	Default (Range)	Property
d00.00 (0x6000)	Current Motor Parameter	V/F SVC FVC PMV/F PMSVC PMFVC 1: Motor Parameter 1 2: Motor Parameter 2 3: Motor Parameter 3 4: Motor Parameter 4	0.500V (0.000V~ 3.000V)	STOP
d00.01 (0x6001)	ACC/DEC Time Link	V/F SVC FVC PMV/F PMSVC PMFVC Set the acceleration/deceleration time link.	0.500V (0.000V~ 3.000V)	STOP
d00.02 (0x6002)	Motor 2 Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor 2 control mode. 0: AM-V/F 1: AM-SVC 2: AM-FVC 10: PM-VF 11: PM-SVC 12: PM-FVC 20: VF-SPLIT	5.000V (0.000V~ 7.000V)	STOP
d00.03 (0x6003)	Motor 3 Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor 3 control mode. 0: AM-V/F 1: AM-SVC 2: AM-FVC 10: PM-VF 11: PM-SVC 12: PM-FVC 20: VF-SPLIT	5.000V (0.000V~ 7.000V)	STOP
d00.04 (0x6004)	Motor 4 Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor 4 control mode. 0: AM-V/F 1: AM-SVC 2: AM-FVC 10: PM-VF 11: PM-SVC 12: PM-FVC 20: VF-SPLIT	9.500V (0.000V~ 11.000V)	STOP
d00.05 (0x6005)	Motor 1 Frequency Backup	V/F SVC FVC PMV/F PMSVC PMFVC Set the backup frequency for motor 1.	9.500V (0.000V~ 11.000V)	RUN
d00.06 (0x6006)	Motor 2 Frequency Backup	V/F SVC FVC PMV/F PMSVC PMFVC Set the backup frequency for motor 2.	1.000mA (0.000mA~ 6.000mA)	RUN
d00.07 (0x6007)	Motor 3 Frequency Backup	V/F SVC FVC PMV/F PMSVC PMFVC Set the backup frequency for motor 3.	1.000mA (0.000mA~ 6.000mA)	RUN
d00.08 (0x6008)	Motor 4 Frequency Backup	V/F SVC FVC PMV/F PMSVC PMFVC Set the backup frequency for motor 4.	10.000mA (0.000mA~ 14.000mA)	RUN

4.23 d01: Motor 2 Parameters

d01.0x: Basic Parameters and Auto-tuning

Code (Address)	Name	Content	Default (Range)	Property
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d01.00 (0x6100)	Type	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor type. 0: Asynchronous motor (AM) 1: Permanent magnet synchronous motor (PM)	0 (0~1)	READ
d01.01 (0x6101)	Pole No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor pole number.	4 (2~98)	STOP
d01.02 (0x6102)	Rated Power	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated power of the motor.	2.2kW (0.1kW~ 1000.0kW)	STOP
d01.03 (0x6103)	Rated Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated frequency of the motor.	50.00Hz (0.01Hz~Max. frequency)	STOP
d01.04 (0x6104)	Rated Speed	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated speed of the motor.	1400rpm (0rpm~ 65000rpm)	STOP
d01.05 (0x6105)	Rated Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated voltage of the motor.	380V (0V~2000V)	STOP
d01.06 (0x6106)	Rated Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated current of the motor.	5.0A (0.1A~ 3000.0A)	STOP
d01.07 (0x6107)	Auto-tuning	V/F SVC FVC PMV/F PMSVC PMFVC After the parameter auto-tuning is finished, [F02.07] will be set to "0" automatically. 0: None 1: Rotary auto-tuning 2: Static auto-tuning 3: Stator resistance auto-tuning 9: PM inductance saturation coefficient auto-tuning	0 (0~20)	STOP
d01.08 (0x6108)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor auto-tuning flag.	0x0000 (0x0000~ 0xFFFF)	READ
d01.09 (0x6109)	ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor ID.	0x0000 (0x0000~ 0xFFFF)	STOP

d01.1x: AM Parameters

Code (Address)	Name	Content	Default (Range)	Property
d01.10 (0x610A)	No-load Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the no-load current for asynchronous motors.	Up to model (0.1A~3000.0A)	STOP
d01.11 (0x610B)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for asynchronous motors.	Up to model (1mΩ~ 65535mΩ)	STOP
d01.12 (0x610C)	Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the rotor resistance for asynchronous motors.	Up to model (1mΩ~ 65535mΩ)	STOP
d01.13 (0x610D)	Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator leakage inductance for asynchronous motors.	Up to model (1mH~ 6553.5mH)	STOP
d01.14 (0x610E)	Stator Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator inductance for asynchronous motors.	Up to model (1mH~ 65535mH)	STOP
d01.15 (0x610F)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance.	Up to model (0.01%~ 655.35%)	READ
d01.16 (0x6110)	Per-unit Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit rotor resistance.	Up to model (0.01%~ 655.35%)	READ
d01.17 (0x6111)	Per-unit Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator leakage inductance.	Up to model (0.01%~ 655.35%)	READ
d01.18 (0x6112)	Per-unit Stator Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator inductance.	Up to model (0.1%~6553.5%)	READ
d01.19 (0x6113)	Parameter Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the parameter range.	0x0000 (0x0000~ 0xFFFF)	STOP

d01.2x: PM Parameters

Code (Address)	Name	Content	Default (Range)	Property
d01.20 (0x6114)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for permanent magnet synchronous motors.	Up to model (1mΩ~ 65535mΩ)	STOP
d01.21 (0x6115)	Per-unit D-axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~ 65535mH)	STOP
d01.22 (0x6116)	Q-axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~ 65535mH)	STOP
d01.23 (0x6117)	Back Emf	V/F SVC FVC PMV/F PMSVC PMFVC Set the back emf for permanent magnet synchronous motors. Only rotary auto-tuning is recognized.	Up to model (0V~1500V)	STOP
d01.24 (0x6118)	Encoder Angle	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder installation angle for permanent magnet synchronous motors.	Up to model (0.0°~360.0°)	RUN
d01.25 (0x6119)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
d01.26 (0x611A)	Per-unit D-Axis	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit d-axis inductance for permanent magnet	Up to model (0.01%~	READ

	Inductance	synchronous motors.	655.35%)	
d01.27 (0x611B)	Per-unit Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit d-axis inductance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
d01.28 (0x611C)	Pulse Width Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the pulse width coefficient for permanent magnet synchronous motors.	Up to model (0.01~655.35)	STOP
d01.29 (0x611D)	Actual Value Unit	V/F SVC FVC PMV/F PMSVC PMFVC Select the unit for actual value.	Up to model (0x0000~ 0x3322)	STOP
d01.30 (0x611E)	Frequency Decimal Bit	V/F SVC FVC PMV/F PMSVC PMFVC Display the decimal bit of motor frequency.	0 (0~3)	STOP

d01.4x~d01.5x: PM D/Q-Axis Inductance Saturation Coefficient

Code (Address)	Name	Content	Default (Range)	Property
d01.40 (0x6128)	D-Axis Inductance Saturation Coefficient 0	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 0 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.41 (0x6129)	D-Axis Inductance Saturation Coefficient 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.42 (0x612A)	D-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.43 (0x612B)	D-Axis Inductance Saturation Coefficient 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.44 (0x612C)	D-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.45 (0x612D)	D-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.46 (0x612E)	D-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.47 (0x612F)	D-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.48 (0x6130)	D-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.49 (0x6131)	D-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.50 (0x6132)	Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 0 for	100.0% (0.1%~2000.0%)	RUN

	Saturation Coefficient 0	permanent magnet synchronous motors.		
d01.51 (0x6133)	Q-Axis Inductance Saturation Coefficient 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.52 (0x6134)	Q-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.53 (0x6135)	Q-Axis Inductance Saturation Coefficient 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.54 (0x6136)	Q-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.55 (0x6137)	Q-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.56 (0x6138)	Q-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.57 (0x6139)	Q-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.58 (0x613A)	Q-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d01.59 (0x613B)	Q-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN

d01.6x~d01.7x: Tuning Extension

Code (Address)	Name	Content	Default (Range)	Property
d01.60 (0x613C)	Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Tuning only without updating >1: Tuning and updating	0x0000 (0x0000~0xFFFF)	STOP
d01.61 (0x613D)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance tuning coefficient 1.	0x0000 (0x0000~0xFFFF)	RUN
d01.62 (0x613E)	Resistor Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Auto-tuning after power-up 2: Auto-tuning after start 3: Auto-tuning during operation	0 (0~3)	RUN
d01.63 (0x613F)	Resistor Tuning Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor tuning rate.	0 (0~1000)	RUN
d01.64 (0x6140)	Resistor Tuning	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor online tuning increment.	0.00% (0.00%~	RUN

	Increment		20.00%)	
d01.65 (0x6141)	Resistor Tuning Bus Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the mean bus voltage for resistor online tuning.	0 (0~65535)	RUN
d01.66 (0x6142)	Resistor Stabilizing Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the stabilizing time for resistor online tuning.	0 (0~65535)	RUN
d01.67 (0x6143)	V-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the V-phase current gain.	1024 (1024~2048)	RUN
d01.68 (0x6144)	W-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the W-phase current gain.	1024 (1024~2048)	RUN
d01.69 (0x6145)	Electric Angle Compensati on	V/F SVC FVC PMV/F PMSVC PMFVC Set the electric angle compensation.	0.0 (0.0~6553.5)	RUN
d01.70 (0x6146)	Deadtime Compensati on Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the deadtime compensation gain.	0 (0~65535)	RUN
d01.71 (0x6147)	Actual Deadtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the actual value of deadtime.	0.00 (0~655.35)	RUN
d01.72 (0x6148)	PM Pole Search	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: SVC Tens-bit: FVC 0: OFF 1: ON 2: ON during the first power-up	0x0010 (0000~F223)	STOP
d01.73 (0x6149)	Pole Search Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the value of pole search current.	0.0 (0.0~6553.5)	STOP
d01.74 (0x614A)	Pole Search Current Feedback	V/F SVC FVC PMV/F PMSVC PMFVC Record the value of pole search current feedback.	0.0 (0.0~6553.5)	STOP
d01.75 (0x614B)	PM Inductance Tuning Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning frequency for permanent magnet synchronous motors.	300.00Hz (0.00Hz~600.00Hz)	STOP
d01.76 (0x614C)	PM Inductance Tuning Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning current for permanent magnet synchronous motors.	0.0 (0.0~180.0)	STOP
d01.77 (0x614D)	LC Filter Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter inductance.	0.000 (0.000~65.000)	STOP
d01.78 (0x614E)	LC Filter Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter resistance.	0.0 (0.0~6500.0)	STOP

4.24 d02: Motor 2 Vector Control

d02.0x: ASR Control

Code (Address)	Name	Content	Default (Range)	Property
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d02.00 (0x6200)	Rigidity Level	V/F SVC FVC PMV/F PMSVC PMFVC Set the rigidity level, the higher the level, the better the speed rigidity.	32 (0~128)	RUN
d02.02 (0x6202)	Proportional Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at high speed.	10.00 (0.01~100.00)	RUN
d02.03 (0x6203)	Integral Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR integral time at high speed.	0.100s (0.000s~6.000s)	RUN
d02.04 (0x6204)	Filter Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at high speed.	0.0ms (0.0ms~100.0ms)	RUN
d02.05 (0x6205)	Shift Frequency 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at high speed.	0.00Hz (0.00Hz~Max. frequency)	RUN
d02.06 (0x6206)	Proportional Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at low speed.	10.00 (0.01~100.00)	RUN
d02.07 (0x6207)	Integral Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR integral time at low speed.	0.100s (0.000s~6.000s)	RUN
d02.08 (0x6208)	Filter Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at low speed.	0.0ms (0.0ms~100.0ms)	RUN
d02.09 (0x6209)	Shift Frequency 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at low speed.	0.00Hz (0.00Hz~d02.05)	RUN

d02.1x: ACR and Torque Limit

Code (Address)	Name	Content	Default (Range)	Property
d02.10 (0x620A)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis proportional gain.	1.000 (0.001~4.000)	RUN
d02.11 (0x620B)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis integral gain.	1.000 (0.001~4.000)	RUN
d02.12 (0x620C)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis proportional gain.	1.000 (0.001~4.000)	RUN
d02.13 (0x620D)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis integral gain.	1.000 (0.001~4.000)	RUN
d02.14 (0x620E)	Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Voltage feedforward control 0: OFF 1: ON Tens-bit: Current prediction control 0: OFF 1: ON Hundreds-bit: Current loop gain 0: OFF 1: ON	0x0000 (0x0000~0x0111)	RUN
d02.15 (0x620F)	Motoring Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit when motor is running with load.	250.0% (0.0%~400.0%)	RUN
d02.16 (0x6210)	Generating Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit in power generation mode.	250.0% (0.0%~400.0%)	RUN
d02.17 (0x6211)	Motoring Torque Limit Source	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL	0 (0~7)	RUN

		6: RS485 communication (0x3014) 7: Reserved (0x31 group)		
d02.18 (0x6212)	Regenerating Torque Limit Source	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 communication (0x3015) 7: Reserved (0x31 group)	0 (0~7)	RUN
d02.19 (0x6213)	Torque Limit View	V/F SVC FVC PMV/F PMSVC PMFVC View the given torque limits. 0: C00.06 display the torque limit value during motoring 1: C00.06 display the torque limit value during generating	0x0000 (0x0000~ 0x0177)	RUN

d02.2x: Torque Optimization

Code (Address)	Name	Content	Default (Range)	Property
d02.20 (0x6214)	PM LF Dragging Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	20.0% (0.0%~50.0%)	RUN
d02.21 (0x6215)	PM HF Dragging Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	10.0% (0.0%~50.0%)	RUN
d02.22 (0x6216)	PM Dragging Frequency	V/F SVC FVC PMV/F PMSVC PMFVC The set value 100.0% corresponds to F01.10 [Max. Frequency].	10.0% (0.0%~100.0%)	RUN
d02.23 (0x6217)	AM Slip Compensati on	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation for asynchronous motors.	100.0% (0.0%~250.0%)	RUN
d02.24 (0x6218)	Initial Starting Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the initial starting torque.	0.0% (0.0%~250.0%)	RUN
d02.25 (0x6219)	AFR Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control gain.	0.0 (0.0~1000.0)	RUN
d02.26 (0x621A)	AFR Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	0.0 (0.0~1000.0)	RUN
d02.27 (0x621B)	AFR Reference Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux given gain.	0.0 (0.0~200.0)	RUN
d02.28 (0x621C)	Torque Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque range.	0x0000 (0x0000~0xFFFF F)	RUN
d02.29 (0x621D)	Flux Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux range.	0.0% (0.0%~150.0%)	RUN

d02.3x: Flux Optimization

Code (Address)	Name	Content	Default (Range)	Property
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d02.30 (0x621E)	Field-weakening Feed-forward Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the feed-forward coefficient under field weakening control.	10.0% (0.0%~500.0%)	RUN
d02.31 (0x621F)	Field-weakening Control Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the control gain under field weakening control.	10.0% (0.0%~500.0%)	RUN
d02.32 (0x6220)	Field-weakening Current Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the current upper limit under field weakening control.	60.0% (0.0%~250.0%)	RUN
d02.33 (0x6221)	Field-weakening Voltage Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage coefficient under field weakening control.	97.0% (0.0%~120.0%)	RUN
d02.34 (0x6222)	Output Power Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the output power range.	250.0% (0.0%~400.0%)	RUN
d02.35 (0x6223)	Over-excitation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation gain.	100.0% (0.0%~500.0%)	RUN
d02.36 (0x6224)	Over-excitation Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation range.	100.0% (0.0%~250.0%)	RUN
d02.37 (0x6225)	ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	RUN
d02.38 (0x6226)	Min ECO Excitation	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit of energy-saving excitation.	50.0% (0.0%~80.0%)	RUN
d02.39 (0x6227)	ECO Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the filter time of energy-saving running.	0.010s (0.000s~6.000s)	RUN

d02.4x: PM HF Injection

Code (Address)	Name	Content	Default (Range)	Property
d02.40 (0x6228)	HF Injection Mode	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, please select 0 with SPM and 0~5 with IPM. 0: OFF 1~5: ON, the greater the value, the higher the injection frequency.	0 (0~1)	STOP
d02.41 (0x6229)	HF Injection Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the injection voltage range (relative to rated voltage). It is the result of auto-tuning, so there's no need to modify it.	10.0% (0.0%~100.0%)	RUN
d02.42 (0x623A)	HF Injection OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency injection range (relative to motor rated frequency). It is valid when the motor speed is lower than this value.	0.0% (0.0%~100.0%)	RUN
d02.43 (0x622B)	HF Injection Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated gain for high-frequency injection speed.	500 (0~65535)	RUN
d02.44 (0x622C)	HF Injection Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated integral gain for high-frequency injection speed.	100 (0~65535)	RUN
d02.45	HF	V/F SVC FVC PMV/F PMSVC PMFVC	0	RUN

(0x622D)	Injection Debugging	Debug the high-frequency injection.	(0~65535)	
d02.46 (0x622E)	HF Injection Carrier	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency injection carrier.	0 (0~10)	RUN

d02.5x~d02.6x: VC Extension

Code (Address)	Name	Content	Default (Range)	Property
d02.50 (0x6232)	Max. ACR Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the position compensation under speed control to realize zero servo or raise system rigidity.	50.0 (0.0~100.0)	STOP
d02.51 (0x6233)	Min. Current Error	V/F SVC FVC PMV/F PMSVC PMFVC It is used for debugging.	0.0 (0.0~102.4)	RUN
d02.52 (0x6234)	IF Control Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the current under IF control, where 100% equals the motor's rated current.	60.0% (0.0%~400.0%)	RUN
d02.53 (0x6235)	IF Control Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency under IF control.	0.0% (0.0%~100.0%)	RUN
d02.60 (0x623C)	PM MTPA Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA gain for permanent magnet synchronous motors.	100.0 (0.0~400.0)	RUN
d02.61 (0x623D)	PM MTPA Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA filter time for permanent magnet synchronous motors.	1.0 (0.0~100.0)	RUN
d02.65 (0x6241)	Regenerative Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed.	0.0% (0.0%~400.0%)	RUN
d02.66 (0x6242)	LS Regenerative Torque Limit Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed.	6.00% (0.00%~30.00%)	RUN
d02.70 (0x6246)	Estimated SVC Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated open loop gain 1.	1.000 (0.000~8.000)	RUN
d02.71 (0x6247)	Estimated SVC Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated open loop gain 2.	1.000 (0.000~8.000)	RUN
d02.72 (0x6248)	Generating Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the generating gain.	30.0% (0.0%~6553.5%)	RUN
d02.73 (0x6249)	SPLL Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 1.	3.000 (0.000~65.535)	RUN
d02.74 (0x624A)	SPLL Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 2.	1.000 (0.000~65.535)	RUN
d02.75 (0x624B)	Angle Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle error limit.	10.0 (0.0~100.0)	RUN
d02.76 (0x624C)	Angle Hysteresis Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle hysteresis error limit.	10.0 (0.0~100.0)	RUN
d02.77 (0x624D)	Direct Flux Vector Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Optimize the direct flux vector mode.	0 (0~65535)	RUN
d02.78 (0x624E)	Min. Direct Flux Vector Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for direct flux vector mode.	1.0% (0.0%~6000.0%)	RUN
d02.79 (0x624F)	Min. Flux FVC Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for flux closed loop mode.	10.0% (0.0%~6000.0%)	RUN
d02.80	Estimated	V/F SVC FVC PMV/F PMSVC PMFVC	1000	RUN

(0x6250)	Direct Flux Vector Gain	Set the estimated gain under direct flux vector mode.	(0.~65535)	
d02.81 (0x6251)	AFO Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO1 control gain.	1.000 (0.000~65.535)	RUN
d02.82 (0x6252)	AFO Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO2 control gain.	1.000 (0.000~65.535)	RUN
d02.83 (0x6253)	AFO Gain 3	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO3 control gain.	1.000 (0.000~65.535)	RUN
d02.84 (0x6254)	AFO Gain 4	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO4 control gain.	1.000 (0.000~65.535)	RUN

4.25 d03: Motor 2 V/F Control

d03.0x: V/F Control

Code (Address)	Name	Content	Default (Range)	Property
d03.00 (0x6300)	V/F Curve	V/F SVC FVC PMV/F PMSVC PMFVC Select the type of V/F curve according to different load characteristics. 0: Linear V/F curve 1~9: 1.1-1.9 power V/F curves respectively 10: Square V/F curve 11: Custom V/F curve	0 (0~11)	STOP
d03.01 (0x6301)	Torque Boost	V/F SVC FVC PMV/F PMSVC PMFVC 0.0%: Automatic torque boost 0.1%~30.0%: Manual torque boost	Up to model (0.0%~30.0%)	RUN
d03.02 (0x6302) RUN	Torque Boost OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the range of the torque boost. The torque boost will be cut off when the output frequency exceeds this value.	100.0% (0.0%~100.0%)	RUN
d03.03 (0x6303) RUN	Slip Compensation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation gain.	0.0% (0.0%~200.0%)	RUN
d03.04 (0x6304) RUN	Slip Compensation Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation range.	100.0% (0.0%~300.0%)	RUN
d03.05 (0x6305) RUN	Slip Compensation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Enter the parameters on the motor's nameplate correctly to implement parameter tuning for best effect.	0.200s (0.000s~6.000s)	RUN
d03.06 (0x6306) RUN	Anti-oscillation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Adjust this value to suppress low-frequency resonance, but it should not be too large or it will cause instability.	100.0% (0.0%~900.0%)	RUN
d03.07 (0x6307) RUN	Anti-oscillation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation filter time.	1.0s (0.0s~100.0s)	RUN
d03.08 (0x6308)	Output Voltage Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage, where 100% equals the motor's rated voltage.	100.0% (25.0%~120.0%)	STOP
d03.09 (0x6309)	Min. Overcurrent Suppression Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the overcurrent suppression lower limit frequency.	0.00 (0.00~50.00)	RUN

d03.1x: Customized V/F Curve

Code (Address)	Name	Content	Default (Range)	Property
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d03.10 (0x630A)	V1 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V1 (user-defined voltage).	3.0% (0.0%~100.0%)	STOP
d03.11 (0x630B)	F1 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F1 (user-defined frequency).	1.00Hz (0.00Hz~Max. frequency)	STOP
d03.12 (0x630C)	V2 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V2 (user-defined voltage).	28.0% (0.0%~100.0%)	STOP
d03.13 (0x630D)	F2 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F2 (user-defined frequency).	10.00Hz (0.00Hz~Max. frequency)	STOP
d03.14 (0x630E)	V3 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V3 (user-defined voltage).	55.0% (0.0%~100.0%)	STOP
d03.15 (0x630F)	F3 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F3 (user-defined frequency).	25.00Hz (0.00Hz~Max. frequency)	STOP
d03.16 (0x6600)	V4 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V4 (user-defined voltage).	78.0% (0.0%~100.0%)	STOP
d03.17 (0x6311)	F4 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F4 (user-defined frequency).	37.50Hz (0.00Hz~Max. frequency)	STOP
d03.18 (0x6312)	V5 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V5 (user-defined voltage).	100.0% (0.0%~100.0%)	STOP
d03.19 (0x6313)	F5 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F5 (user-defined frequency).	50.00Hz (0.00Hz~Max. frequency)	STOP

d03.2x: VF-SPLIT Control

Code (Address)	Name	Content	Default (Range)	Property
d03.20 (0x6314)	Voltage Source A	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value 9999: K	0x0000 (0x0000~ 0x0599)	RUN
d03.21 (0x6315)	Voltage Source B	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value	0x0000 (0x0000~ 0xFFFF)	RUN
d03.22 (0x6316)	Voltage Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: Source A	0x0000 (0x0000~	RUN

	Combination	1: Source B 2: Source A+Source B 3: Source A-Source B 4: Max. (A or B) 5: Min. (A or B)	0xFFFF)	
d03.23 (0x6317)	Output Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage under V/F-SPLIT control, where 100.0% equals the motor's rated voltage.	0.00% (0.00%~110.00%)	RUN
d03.24 (0x6318)	Voltage ACC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration time under V/F-SPLIT control.	10.00s (0.00s~100.00s)	RUN
d03.25 (0x6319)	Voltage DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage deceleration time under V/F-SPLIT control.	10.00s (0.00s~100.00s)	RUN
d03.26 (0x631A)	Stop Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the stop mode under V/F-SPLIT control. 0: No relationship between ACC/DEC of output voltage and frequency 1: Output frequency drops after the output voltage drops to 0V.	0 (0~1)	RUN
d03.27 (0x631B)	Voltage Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage value under V/F-SPLIT control.	0.00V (0.00V~600.00V)	RUN

d03.3x: V/F ECO Control

Code (Address)	Name	Content	Default (Range)	Property
d03.30 (0x631E)	V/F ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	STOP
d03.31 (0x631F)	Min. Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower frequency limit of the ECO mode.	15.0Hz (0.0Hz~50.0Hz)	STOP
d03.32 (0x6320)	Min. Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower voltage limit of the ECO mode.	50.0% (20.0%~100.0%)	STOP
d03.33 (0x6321)	DEC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage declaration rate in the ECO mode.	0.010V/ms (0.000V/ms~0.2000V/ms)	RUN
d03.34 (0x6322)	ACC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration rate in the ECO mode.	0.200V/ms (0.000V/ms~2.000V/ms)	RUN
d03.35 (0x6323)	Over-excitation Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC It is valid when tens-bit of F10.11 is not zero; at the same output frequency, the output voltage increases with increasing bus voltage.	64 (0~200)	RUN

d03.4x: V/F PM Anti-oscillation

Code (Address)	Name	Content	Default (Range)	Property
d03.40 (0x6328)	Damper Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain.	5.0% (0%~400.0%)	RUN
d03.41 (0x6329)	Damper Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper filter time.	0s (0s~100.0s)	RUN
d03.42 (0x632A)	Damper Output Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper output range.	5.0% (0%~100.0%)	RUN

d03.43 (0x632B)	Active Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the active current filter bandwidth.	5.000Hz (0Hz~65535Hz)	RUN
d03.44 (0x632C)	Damper Weakening Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening coefficient.	20.0% (0%~100.0%)	RUN
d03.45 (0x632D)	Damper Weakening Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening frequency.	20.0% (0%~100.0%)	RUN
d03.46 (0x632E)	Anti-oscillation Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation start frequency.	64% (0%~F4.79%)	RUN

d03.5x: V/F PM Flux Control

Code (Address)	Name	Content	Default (Range)	Property
d03.50 (0x6332)	Setting	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control.	30.0% (0%~500.0%)	RUN
d03.51 (0x6333)	Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control proportional gain.	1000 (0~9999)	RUN
d03.52 (0x6334)	Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	1000 (0~9999)	RUN
d03.53 (0x6335)	Controller Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller frequency.	5.0% (0%~100.0%)	RUN
d03.54 (0x6336)	Controller Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller time.	7.0s (0s~100.0s)	RUN

d03.6x: V/F PM Current Control

Code (Address)	Name	Content	Default (Range)	Property
d03.60 (0x633C)	D-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis current gain.	0.500 (0~10.000)	RUN
d03.61 (0x633D)	Q-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis current gain.	0.500 (0~10.000)	RUN
d03.62 (0x633E)	D-Axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis feedforward gain.	0 (0~10.000)	RUN
d03.63 (0x633F)	Q-axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis feedforward gain.	1.000 (0~10.000)	RUN
d03.64 (0x6340)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control proportional gain.	50.0% (0%~200.0%)	RUN
d03.65 (0x6341)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control integral gain.	80.0% (0%~1000.0%)	RUN
d03.66 (0x6342)	D-Axis LF Current Proportional Gain Boost	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis low-frequency current proportional gain boost.	0% (0%~100.0%)	RUN
d03.67 (0x6343)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control proportional gain.	100.0% (0%~6553.5%)	RUN
d03.68 (0x6344)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control integral gain.	100.0% (0%~6553.5%)	RUN

d03.69 (0x6345)	D-Axis Weakening Integral	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis integral weakening coefficient.	1000 (0~1024)	RUN
d03.70 (0x6346)	D-Axis Proportional Gain Shift Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the start frequency for D-axis proportional gain shifting.	80.0% (0%~ 6553.5%)	STOP
d03.71 (0x6347)	D-Axis Proportional Gain Shift OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the off frequency for D-axis proportional gain shifting.	120.0% (0%~ 6553.5%)	RUN
d03.72 (0x6348)	HF D-Axis Current Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency D-axis current control proportional gain.	100.0% (0%~200.0%)	RUN
d03.73 (0x6349)	D-Axis Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the D-axis current low-pass filter.	11.000Hz (0Hz~ 65.535Hz)	RUN
d03.74 (0x634A)	Q-Axis Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the Q-axis current low-pass filter.	11.000Hz (0Hz~ 65.535Hz)	RUN
d03.75 (0x634B)	D-Axis Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the given D-axis filter bandwidth.	1.000Hz (0Hz~ 65.535Hz)	RUN
d03.76 (0x634C)	Light-load Current I_q Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the light-load current I_q threshold.	20.0% (0%~50.0%)	RUN
d03.77 (0x634D)	Current I_d Weakening Amplitude	V/F SVC FVC PMV/F PMSVC PMFVC Set the current I_d weakening amplitude.	50.0% (0%~100.0%)	RUN
d03.78 (0x634E)	Efficient Current I_d Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the efficient current I_d value.	0% (0%~50.0%)	RUN
d03.79 (0x634F)	Shift Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency.	10.0% (0%~50.0%)	RUN
d03.80 (0x6350)	Shift Frequency Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency range.	0% (0%~50.0%)	RUN
d03.81 (0x6351)	Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the control mode for the PM voltage vector algorithm.	0x1021 (0x0000~0x1 121)	RUN
d03.82 (0x6352)	LF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the low-frequency dragging current.	100.0% (0%~200.0%)	RUN
d03.83 (0x6353)	LF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for low-frequency dragging current.	10.0% (0%~100.0%)	RUN
d03.84 (0x6354)	HF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency dragging current.	10.0% (0%~200.0%)	RUN
d03.85 (0x6355)	HF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for high-frequency dragging current.	15.0% (0%~100.0%)	RUN

4.26 d04: Motor 3 Parameters

d04.0x: Basic Parameters and Auto-tuning

Code	Name	Content	Default	Property
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(Address)			(Range)	
d04.00 (0x6400)	Type	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor type. 0: Asynchronous motor (AM) 1: Permanent magnet synchronous motor (PM)	0 (0~1)	READ
d04.01 (0x6401)	Pole No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor pole number.	4 (2~98)	STOP
d04.02 (0x6402)	Rated Power	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated power of the motor.	2.2kW (0.1kW~1000.0kW)	STOP
d04.03 (0x6403)	Rated Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated frequency of the motor.	50.00Hz (0.01Hz~Max. frequency)	STOP
d04.04 (0x6404)	Rated Speed	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated speed of the motor.	1400rpm (0rpm~65000rpm)	STOP
d04.05 (0x6405)	Rated Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated voltage of the motor.	380V (0V~2000V)	STOP
d04.06 (0x6406)	Rated Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated current of the motor.	5.0A (0.1A~3000.0A)	STOP
d04.07 (0x6407)	Auto-tuning	V/F SVC FVC PMV/F PMSVC PMFVC After the parameter auto-tuning is finished, [F02.07] will be set to "0" automatically. 0: None 1: Rotary auto-tuning 2: Static auto-tuning 3: Stator resistance auto-tuning 9: PM inductance saturation coefficient auto-tuning	0 (0~20)	STOP
d04.08 (0x6408)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor auto-tuning flag.	0x0000 (0x0000~0xFFFF)	READ
d04.09 (0x6409)	ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor ID.	0x0000 (0x0000~0xFFFF)	STOP

d04.1x: AM Parameters

Code (Address)	Name	Content	Default (Range)	Property
d04.10 (0x640A)	No-load Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the no-load current for asynchronous motors.	Up to model (0.1A~3000.0A)	STOP
d04.11 (0x640B)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for asynchronous motors.	Up to model (1mΩ~65535mΩ)	STOP

d04.12 (0x640C)	Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the rotor resistance for asynchronous motors.	Up to model (1mΩ~ 65535mΩ)	STOP
d04.13 (0x640D)	Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator leakage inductance for asynchronous motors.	Up to model (1mH~ 6553.5mH)	STOP
d04.14 (0x640E)	Stator Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator inductance for asynchronous motors.	Up to model (1mH~ 65535mH)	STOP
d04.15 (0x640F)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance.	Up to model (0.01%~ 655.35%)	READ
d04.16 (0x6410)	Per-unit Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit rotor resistance.	Up to model (0.01%~ 655.35%)	READ
d04.17 (0x6411)	Per-unit Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator leakage inductance.	Up to model (0.01%~ 655.35%)	READ
d04.18 (0x6412)	Per-unit Stator Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator inductance.	Up to model (0.1%~ 6553.5%)	READ
d04.19 (0x6413)	Parameter Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the parameter range.	0x0000 (0x0000~ 0xFFFF)	STOP

d04.2x: PM Parameters

Code (Address)	Name	Content	Default (Range)	Property
d04.20 (0x6414)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for permanent magnet synchronous motors.	Up to model (1mΩ~ 65535mΩ)	STOP
d04.21 (0x6415)	Per-unit D-axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~ 65535mH)	STOP
d04.22 (0x6416)	Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~ 65535mH)	STOP
d04.23 (0x6417)	Back Emf	V/F SVC FVC PMV/F PMSVC PMFVC Set the back emf for permanent magnet synchronous motors. Only rotary auto-tuning is recognized.	Up to model (0V~1500V)	STOP
d04.24 (0x6418)	Encoder Angle	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder installation angle for permanent magnet synchronous motors.	Up to model (0.0°~360.0°)	RUN
d04.25 (0x6419)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
d04.26 (0x641A)	Per-unit D-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit D-axis inductance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
d04.27 (0x641B)	Per-unit Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit D-axis inductance for permanent magnet synchronous motors.	Up to model (0.01%~ 655.35%)	READ
d04.28 (0x641C)	Pulse Width Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the pulse width coefficient for permanent magnet synchronous motors.	Up to model (0.01~655.35)	STOP
d04.29 (0x641D)	Actual Value Unit	V/F SVC FVC PMV/F PMSVC PMFVC Select the unit for actual value.	Up to model (0x0000~	STOP

			0x3322)	
d04.30 (0x641E)	Frequency Decimal Bit	V/F SVC FVC PMV/F PMSVC PMFVC Display the decimal bit of motor frequency.	0 (0~3)	STOP

d04.4x~d04.5x: PM D/Q-Axis Inductance Saturation Coefficient

Code (Address)	Name	Content	Default (Range)	Property
d04.40 (0x6428)	D-Axis Inductance Saturation Coefficient 0	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 0 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.41 (0x6429)	D-Axis Inductance Saturation Coefficient 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.42 (0x642A)	D-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.43 (0x642B)	D-Axis Inductance Saturation Coefficient 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.44 (0x642C)	D-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.45 (0x642D)	D-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.46 (0x642E)	D-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.47 (0x642F)	D-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.48 (0x6430)	D-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.49 (0x6431)	D-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~ 2000.0%)	RUN
d04.50 (0x6432)	Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 0 for	100.0% (0.1%~	RUN

	Saturation Coefficient 0	permanent magnet synchronous motors.	2000.0%)	
d04.51 (0x6433)	Q-Axis Inductance Saturation Coefficient 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.52 (0x6434)	Q-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.53 (0x6435)	Q-Axis Inductance Saturation Coefficient 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.54 (0x6436)	Q-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.55 (0x6437)	Q-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.56 (0x6438)	Q-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.57 (0x6439)	Q-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.58 (0x643A)	Q-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d04.59 (0x643B)	Q-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN

d04.6x~d04.7x: Tuning Extension

Code (Address)	Name	Content	Default (Range)	Property
d04.60 (0x643C)	Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Tuning only without updating >1: Tuning and updating	0x0000 (0x0000~0xFFFF)	STOP
d04.61 (0x643D)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance tuning coefficient 1.	0x0000 (0x0000~0xFFFF)	RUN

d04.62 (0x643E)	Resistor Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Auto-tuning after power-up 2: Auto-tuning after start 3: Auto-tuning during operation	0 (0~3)	RUN
d04.63 (0x643F)	Resistor Tuning Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor tuning rate.	0 (0~1000)	RUN
d04.64 (0x6440)	Resistor Tuning Increment	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor online tuning increment.	0.00% (0.00%~ 20.00%)	RUN
d04.65 (0x6441)	Resistor Tuning Bus Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the mean bus voltage for resistor online tuning.	0 (00~65535)	RUN
d04.66 (0x6442)	Resistor Stabilizing Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the stabilizing time for resistor online tuning.	0 (0~65535)	RUN
d04.67 (0x6443)	V-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the V-phase current gain.	1024 (1024~2048)	RUN
d04.68 (0x6444)	W-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the W-phase current gain.	1024 (1024~2048)	RUN
d04.69 (0x6445)	Electric Angle Compensati on	V/F SVC FVC PMV/F PMSVC PMFVC Set the electric angle compensation.	0.0 (0.0~6553.5)	RUN
d04.70 (0x6446)	Deadtime Compensati on Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the deadtime compensation gain.	0 (0~65535)	RUN
d04.71 (0x6447)	Actual Deadtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the actual value of deadtime.	0.00 (0~655.35)	RUN
d04.72 (0x6448)	PM Pole Search	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: SVC Tens-bit: FVC 0: OFF 1: ON 2: ON during the first power-up	0x0010 (0000~F223)	STOP
d04.73 (0x6449)	Pole Search Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the value of pole search current.	0.0 (0.0~6553.5)	STOP
d04.74 (0x644A)	Pole Search Current Feedback	V/F SVC FVC PMV/F PMSVC PMFVC Record the value of pole search current feedback.	0.0 (0.0~6553.5)	STOP
d04.75 (0x644B)	PM Inductance Tuning Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning frequency for permanent magnet synchronous motors.	300.00Hz (0.00Hz~ 600.00Hz)	STOP
d04.76 (0x644C)	PM Inductance Tuning Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning current for permanent magnet synchronous motors.	0.0 (0.0~180.0)	STOP
d04.77 (0x644D)	LC Filter Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter inductance.	0.000 (0.000~65.000)	STOP

d04.78 (0x644E)	LC Filter Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter resistance.	0.0 (0.0~6500.0)	STOP
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4.27 d05: Motor 3 Vector Control

d05.0x: ASR Control

Code (Address)	Name	Content	Default (Range)	Property
d05.00 (0x6500)	Rigidity Level	V/F SVC FVC PMV/F PMSVC PMFVC Set the rigidity level, the higher the level, the better the speed rigidity.	32 (0~128)	RUN
d05.02 (0x6502)	Proportional Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at high speed.	10.00 (0.01~100.00)	RUN
d05.03 (0x6503)	Integral Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR integral time at high speed.	0.100s (0.000s~6.000s)	RUN
d05.04 (0x6504)	Filter Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at high speed.	0.0ms (0.0ms~100.0ms)	RUN
d05.05 (0x6505)	Shift Frequency 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at high speed.	0.00Hz (0.00Hz~Max. frequency)	RUN
d05.06 (0x6506)	Proportional Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at low speed.	10.00 (0.01~100.00)	RUN
d05.07 (0x6507)	Integral Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR integral time at low speed.	0.100s (0.000s~6.000s)	RUN
d05.08 (0x6508)	Filter Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at low speed.	0.0ms (0.0ms~100.0ms)	RUN
d05.09 (0x6509)	Shift Frequency 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at low speed.	0.00Hz (0.00Hz~d05.05)	RUN

d05.1x: ACR and Torque Limit

Code (Address)	Name	Content	Default (Range)	Property
d05.10 (0x650A)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis proportional gain.	1.000 (0.001~4.000)	RUN
d05.11 (0x650B)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis integral gain.	1.000 (0.001~4.000)	RUN
d05.12 (0x650C)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis proportional gain.	1.000 (0.001~4.000)	RUN
d05.13 (0x650D)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis integral gain.	1.000 (0.001~4.000)	RUN
d05.14 (0x650E)	Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Voltage feedforward control 0: OFF 1: ON Tens-bit: Current prediction control 0: OFF 1: ON Hundreds-bit: Current loop gain 0: OFF 1: ON	0x0000 (0x0000~0x0111)	RUN
d05.15 (0x650F)	Motoring Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit when motor is running with load.	250.0% (0.0%~400.0%)	RUN
d05.16 (0x6510)	Generating Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit in power generation mode.	250.0% (0.0%~400.0%)	RUN
d05.17 (0x6511)	Motoring Torque Limit Source	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 communication (0x3014) 7: Reserved (0x31 group)	0 (0~7)	RUN
d05.18 (0x6512)	Regenerating Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 communication (0x3015) 7: Reserved (0x31 group)	0 (0~7)	RUN
d05.19 (0x6513)	Torque Limit View	V/F SVC FVC PMV/F PMSVC PMFVC View the given torque limits. 0: C00.06 display the torque limit value during motoring 1: C00.06 display the torque limit value during generating	0x0000 (0x0000~0x0177)	RUN

d05.2x: Torque Optimization

Code (Address)	Name	Content	Default (Range)	Property
d05.20 (0x6514)	PM LF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	20.0% (0.0%~50.0%)	RUN
d05.21 (0x6515)	PM HF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	10.0% (0.0%~50.0%)	RUN
d05.22 (0x6516)	PM Drag Frequency	V/F SVC FVC PMV/F PMSVC PMFVC The set value 100.0% corresponds to F01.10 [Max. Frequency].	10.0% (0.0%~100.0%)	RUN
d05.23 (0x6517)	AM Slip Compensation	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation for asynchronous motors.	100.0% (0.0%~250.0%)	RUN
d05.24 (0x6518)	Initial Starting Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the initial starting torque.	0.0% (0.0%~250.0%)	RUN
d05.25 (0x6519)	AFR Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control gain.	0.0 (0.0~1000.0)	RUN
d05.26 (0x651A)	Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	0.0 (0.0~1000.0)	RUN
d05.27 (0x651B)	AFR Reference Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux given gain.	0.0 (0.0~200.0)	RUN
d05.28 (0x651C)	Torque Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque range.	0x0000 (0x0000~0xFF FF)	RUN
d05.29 (0x651D)	Flux Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux range.	0.0% (0.0%~150.0%)	RUN

d05.3x: Flux Optimization

Code (Address)	Name	Content	Default (Range)	Property
d05.30 (0x651E)	Field-weakening Feed-forward Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the feed-forward coefficient under field weakening control.	10.0% (0.0%~500.0%)	RUN
d05.31 (0x651F)	Field-weakening Control Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the control gain under field weakening control.	10.0% (0.0%~500.0%)	RUN
d05.32 (0x6520)	Field-weakening Current Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the current upper limit under field weakening control.	60.0% (0.0%~250.0%)	RUN
d05.33 (0x6521)	Field-weakening Voltage Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage coefficient under field weakening control.	97.0% (0.0%~120.0%)	RUN
d05.34 (0x6522)	Output Power Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the output power range.	250.0% (0.0%~400.0%)	RUN
d05.35 (0x6523)	Over-excitation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation gain.	100.0% (0.0%~500.0%)	RUN
d05.36 (0x6524)	Over-excitation Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation range.	100.0% (0.0%~250.0%)	RUN
d05.37 (0x6525)	ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF	0 (0~1)	RUN

		1: ON		
d05.38 (0x6526)	Min ECO Excitation	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit of energy-saving excitation.	50.0% (0.0%~80.0%)	RUN
d05.39 (0x6527)	ECO Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the filter time of energy-saving running.	0.010s (0.000s~6.000s)	RUN

d05.4x: PM HF Injection

Code (Address)	Name	Content	Default (Range)	Property
d05.40 (0x6528)	HF Injection Mode	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, please select 0 with SPM and 0~5 with IPM. 0: OFF 1~5: ON, the greater the value, the higher the injection frequency.	0 (0~1)	STOP
d05.41 (0x6529)	HF Injection Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the injection voltage range (relative to rated voltage). It is the result of auto-tuning, so there's no need to modify it.	10.0% (0.0%~ 100.0%)	RUN
d05.42 (0x653A)	HF Injection OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency injection range (relative to motor rated frequency). It is valid when the motor speed is lower than this value.	0.0% (0.0%~100.0%)	RUN
d05.43 (0x652B)	HF Injection Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated gain for high-frequency injection speed.	500 (0~65535)	RUN
d05.44 (0x652C)	HF Injection Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated integral gain for high-frequency injection speed.	100 (0~65535)	RUN
d05.45 (0x652D)	HF Injection Debugging	V/F SVC FVC PMV/F PMSVC PMFVC Debug the high-frequency injection.	0 (0~65535)	RUN
d05.46 (0x652E)	HF Injection Carrier	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency injection carrier.	0 (0~10)	RUN

d05.5x~d05.6x: VC Extension

Code (Address)	Name	Content	Default (Range)	Property
d05.50 (0x6532)	Max. ACR Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the position compensation under speed control to realize zero servo or raise system rigidity.	50.0 (0.0~100.0)	STOP
d05.51 (0x6533)	Min. Current Error	V/F SVC FVC PMV/F PMSVC PMFVC It is used for debugging.	0.0 (0.0~102.4)	RUN
d05.52 (0x6534)	IF Control Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the current under IF control, where 100% equals the motor's rated current.	60.0% (0.0%~400.0%)	RUN
d05.53 (0x6535)	IF Control Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency under IF control.	0.0% (0.0%~100.0%)	RUN
d05.60 (0x653C)	PM MTPA Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA gain for permanent magnet synchronous motors.	100.0 (0.0~400.0)	RUN
d05.61 (0x653D)	PM MTPA Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA filter time for permanent magnet synchronous motors.	1.0 (0.0~100.0)	RUN
d05.65 (0x6541)	Regenerativ e Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed.	0.0% (0.0%~400.0%)	RUN

	Limit			
d05.66 (0x6542)	LS Regenerative Torque Limit Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed.	6.00% (0.00%~30.00%)	RUN
d05.70 (0x6546)	Estimated SVC Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated open loop gain 1.	1.000 (0.000~8.000)	RUN
d05.71 (0x6547)	Estimated SVC Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated open loop gain 2.	1.000 (0.000~8.000)	RUN
d05.72 (0x6548)	Generating Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the generating gain.	30.0% (0.0%~6553.5%)	RUN
d05.73 (0x6549)	SPLL Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 1.	3.000 (0.000~65.535)	RUN
d05.74 (0x654A)	SPLL Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 2.	1.000 (0.000~65.535)	RUN
d05.75 (0x654B)	Angle Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle error limit.	10.0 (0.0~100.0)	RUN
d05.76 (0x654C)	Angle Hysteresis Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle hysteresis error limit.	10.0 (0.0~100.0)	RUN
d05.77 (0x654D)	Direct Flux Vector Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Optimize the direct flux vector mode.	0 (0~65535)	RUN
d05.78 (0x654E)	Min. Direct Flux Vector Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for direct flux vector mode.	1.0% (0.0%~6000.0%)	RUN
d05.79 (0x654F)	Min. Flux FVC Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for flux closed loop mode.	10.0% (0.0%~6000.0%)	RUN
d05.80 (0x6550)	Estimated Direct Flux Vector Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated gain under direct flux vector mode.	1000 (0~65535)	RUN
d05.81 (0x6551)	AFO Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO1 control gain.	1.000 (0.000~65.535)	RUN
d05.82 (0x6552)	AFO Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO2 control gain.	1.000 (0.000~65.535)	RUN
d05.83 (0x6553)	AFO Gain 3	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO3 control gain.	1.000 (0.000~65.535)	RUN
d05.84 (0x6554)	AFO Gain 4	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO4 control gain.	1.000 (0.000~65.535)	RUN

4.28 d06: Motor 3 V/F Control

d06.0x: V/F Control

Code (Address)	Name	Content	Default (Range)	Property
d06.00 (0x6600)	V/F Curve	V/F SVC FVC PMV/F PMSVC PMFVC Select the type of V/F curve according to different load characteristics. 0: Linear V/F curve 1~9: 1.1-1.9 power V/F curves respectively 10: Square V/F curve 11: Custom V/F curve	0 (0~11)	STOP
d06.01 (0x6601)	Torque Boost	V/F SVC FVC PMV/F PMSVC PMFVC 0.0%: Automatic torque boost 0.1%~30.0%: Manual torque boost	Up to model (0.0%~30.0%)	RUN
d06.02 (0x6602)	Torque Boost OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the range of the torque boost. The torque boost will be cut off when the output frequency exceeds this value.	100.0% (0.0%~100.0%)	RUN
d06.03 (0x6603)	Slip Compensation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation gain.	0.0% (0.0%~200.0%)	RUN
d06.04 (0x6604)	Slip Compensation Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation range.	100.0% (0.0%~300.0%)	RUN
d06.05 (0x6605)	Slip Compensation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Enter the parameters on the motor's nameplate correctly to implement parameter tuning for best effect.	0.200s (0.000s~6.000s)	RUN
d06.06 (0x6606)	Anti-oscillation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Adjust this value to suppress low-frequency resonance, but it should not be too large or it will cause instability.	100.0% (0.0%~900.0%)	RUN
d06.07 (0x6607)	Anti-oscillation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation filter time.	1.0s (0.0s~100.0s)	RUN
d06.08 (0x6608)	Output Voltage Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage, 100% of it corresponds to the motor rated voltage.	100.0% (25.0%~120.0%)	STOP
d06.09 (0x6609)	Min. Overcurrent Suppression Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the overcurrent suppression lower limit frequency.	0.00 (0.00~50.00)	RUN

d06.1x: User-defined V/F Curve

Code (Address)	Name	Content	Default (Range)	Property
d06.10 (0x660A)	V1 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V1 (user-defined voltage).	3.0% (0.0%~100.0%)	STOP
d06.11 (0x660B)	F1 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F1 (user-defined frequency).	1.00Hz (0.00Hz~Max. frequency)	STOP
d06.12 (0x660C)	V2 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V2 (user-defined voltage).	28.0% (0.0%~100.0%)	STOP
d06.13	F2	V/F SVC FVC PMV/F PMSVC PMFVC	10.00Hz	STOP

(0x660D)	(User-defined Frequency)	Set the F2 (user-defined frequency).	(0.00Hz~Max. frequency)	
d06.14 (0x660E)	V3 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V3 (user-defined voltage).	55.0% (0.0%~100.0%)	STOP
d06.15 (0x660F)	F3 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F3 (user-defined frequency).	25.00Hz (0.00Hz~Max. frequency)	STOP
d06.16 (0x6610)	V4 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V4 (user-defined voltage).	78.0% (0.0%~100.0%)	STOP
d06.17 (0x6611)	F4 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F4 (user-defined frequency).	37.50Hz (0.00Hz~Max. frequency)	STOP
d06.18 (0x6612)	V5 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V5 (user-defined voltage).	100.0% (0.0%~100.0%)	STOP
d06.19 (0x6613)	F5 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F5 (user-defined frequency).	50.00Hz (0.00Hz~Max. frequency)	STOP

d06.2x: VF-SPLIT Control

Code (Address)	Name	Content	Default (Range)	Property
d06.20 (0x6614)	Voltage Source A	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value 9999: K	0x0000 (0x0000~0x0599)	RUN
d06.21 (0x6615)	Voltage Source B	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value 9999: K	0x0000 (0x0000~0xFFFF)	RUN
d06.22 (0x6616)	Voltage Source Combination	V/F SVC FVC PMV/F PMSVC PMFVC 0: Source A 1: Source B 2: Source A+Source B 3: Source A-Source B 4: Max. (A or B) 5: Min. (A or B)	0x0000 (0x0000~0xFFFF)	RUN
d06.23 (0x6617)	Output Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage under V/F-SPLIT control, 100.0% of it corresponds to the motor rated voltage.	0.00% (0.00%~110.00%)	RUN

d06.24 (0x6618)	Voltage ACC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration time under V/F-SPLIT control.	10.00s (0.00s~100.00s)	RUN
d06.25 (0x6619)	Voltage DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage deceleration time under V/F-SPLIT control.	10.00s (0.00s~100.00s)	RUN
d06.26 (0x661A)	Stop Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the stop mode under V/F-SPLIT control. 0: No relationship between ACC/DEC of output voltage and frequency 1: Output frequency drops after the output voltage drops to 0V.	0 (0~1)	RUN
d06.27 (0x661B)	Voltage Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage value under V/F-SPLIT control.	0.00V (0.00V~600.00V)	RUN

d06.3x: V/F ECO Control

Code (Address)	Name	Content	Default (Range)	Property
d06.30 (0x661E)	V/F ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	STOP
d06.31 (0x661F)	Min. Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower frequency limit of the ECO mode.	15.0Hz (0.0Hz~50.0Hz)	STOP
d06.32 (0x6620)	Min. Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower voltage limit of the ECO mode.	50.0% (20.0%~100.0%)	STOP
d06.33 (0x6621)	DEC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage declaration rate in the ECO mode.	0.010V/ms (0.000V/ms~0.200 0V/ms)	RUN
d06.34 (0x6622)	ACC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration rate in the ECO mode.	0.200V/ms (0.000V/ms~2.000 V/ms)	RUN
d06.35 (0x6623)	Over-excita tion Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC It is valid when tens-bit of F10.11 is not zero; at the same output frequency, the output voltage increases with increasing bus voltage.	64 (0~200)	RUN

d06.4x: V/F PM Anti-oscillation

Code (Address)	Name	Content	Default (Range)	Property
d06.40 (0x6628)	Damper Proportiona l Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain.	5.0% (0%~400.0%)	RUN
d06.41 (0x6629)	Damper Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper filter time.	0s (0s~100.0s)	RUN
d06.42 (0x662A)	Damper Output Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper output range.	5.0% (0%~100.0%)	RUN
d06.43 (0x662B)	Active Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the active current filter bandwidth.	5.000Hz (0Hz~65535Hz)	RUN
d06.44 (0x662C)	Damper Weakening Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening coefficient.	20.0% (0%~100.0%)	RUN
d06.45 (0x662D)	Damper Weakening Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening frequency.	20.0% (0%~100.0%)	RUN

d06.46 (0x662E)	Anti-oscillation Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation start frequency.	64% (0%~F4.79%)	RUN
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d06.5x: V/F PM Flux Control

Code (Address)	Name	Content	Default (Range)	Property
d06.50 (0x6632)	Flux Control	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control.	30.0% (0%~500.0%)	RUN
d06.51 (0x6633)	Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control proportional gain.	1000 (0~9999)	RUN
d06.52 (0x6634)	Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	1000 (0~9999)	RUN
d06.53 (0x6635)	Controller Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller frequency.	5.0% (0%~100.0%)	RUN
d06.54 (0x6636)	Controller Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller time.	7.0s (0s~100.0s)	RUN

d06.6x: V/F PM Current Control

Code (Address)	Name	Content	Default (Range)	Property
d06.60 (0x663C)	D-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis current gain.	0.500 (0~10.000)	RUN
d06.61 (0x663D)	Q-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis current gain.	0.500 (0~10.000)	RUN
d06.62 (0x663E)	D-Axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis feedforward gain.	0 (0~10.000)	RUN
d06.63 (0x663F)	Q-Axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis feedforward gain.	1.000 (0~10.000)	RUN
d06.64 (0x6640)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control proportional gain.	50.0% (0%~200.0%)	RUN
d06.65 (0x6641)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control integral gain.	80.0% (0%~1000.0%)	RUN
d06.66 (0x6642)	D-Axis LF Current Proportional Gain Boost	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis low-frequency current proportional gain boost.	0% (0%~100.0%)	RUN
d06.67 (0x6643)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control proportional gain.	100.0% (0%~6553.5%)	RUN
d06.68 (0x6644)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control integral gain.	100.0% (0%~6553.5%)	RUN
d06.69 (0x6645)	D-Axis Weakening Integral	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis integral weakening coefficient.	1000 (0~1024)	RUN
d06.70 (0x6646)	D-Axis Proportional Gain Shift Start	V/F SVC FVC PMV/F PMSVC PMFVC Set the start frequency for D-axis proportional gain shifting.	80.0% (0%~6553.5%)	

	Frequency			
d06.71 (0x6647)	D-Axis Proportiona l Gain Shift OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the OFF frequency for D-axis proportional gain shifting.	120.0% (0%~6553.5%)	RUN
d06.72 (0x6648)	HF D-Axis Current Proportiona l Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency D-axis current control proportional gain.	100.0% (0%~200.0%)	RUN
d06.73 (0x6649)	D-Axis Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the D-axis current low-pass filter.	11.000Hz (0Hz~65.535Hz)	RUN
d06.74 (0x664A)	Q-Axis Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the Q-axis current low-pass filter.	11.000Hz (0Hz~65.535Hz)	RUN
d06.75 (0x664B)	D-Axis Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the given D-axis filter bandwidth.	1.000Hz (0Hz~65.535Hz)	RUN
d06.76 (0x664C)	Light-load Current I_q Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the light-load current I_q threshold.	20.0% (0%~50.0%)	RUN
d06.77 (0x664D)	Current I_d Weakening Amplitude	V/F SVC FVC PMV/F PMSVC PMFVC Set the current I_d weakening amplitude.	50.0% (0%~100.0%)	RUN
d06.78 (0x664E)	Efficient Current I_d Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the efficient current I_d value.	0% (0%~50.0%)	RUN
d06.79 (0x664F)	Shift Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency.	10.0% (0%~50.0%)	RUN
d06.80 (0x6650)	Shift Frequency Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency range.	0% (0%~50.0%)	RUN
d06.81 (0x6651)	Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the control mode for the PM voltage vector algorithm.	0x1021 (0x0000~ 0x1121)	RUN
d06.82 (0x6652)	LF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the low-frequency dragging current.	100.0% (0%~200.0%)	RUN
d06.83 (0x6653)	LF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for low-frequency dragging current.	10.0% (0%~100.0%)	RUN
d06.84 (0x6654)	HF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency dragging current.	10.0% (0%~200.0%)	RUN
d06.85 (0x6655)	HF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for high-frequency dragging current.	15.0% (0%~100.0%)	RUN

4.29 d07: Motor 4 Parameters

d07.0x: Basic Parameters and Auto-tuning

Code (Address)	Name	Content	Default (Range)	Property
d07.00 (0x6700)	Type	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor type. 0: Asynchronous motor (AM) 1: Permanent magnet synchronous motor (PM)	0 (0~1)	READ
d07.01 (0x6701)	Pole No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor pole number.	4 (2~98)	STOP
d07.02 (0x6702)	Rated Power	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated power of the motor.	2.2kW (0.1kW~1000.0kW)	STOP
d07.03 (0x6703)	Rated Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated frequency of the motor.	50.00Hz (0.01Hz~Max. frequency)	STOP
d07.04 (0x6704)	Rated Speed	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated speed of the motor.	1400rpm (0rpm~65000rpm)	STOP
d07.05 (0x6705)	Rated Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated voltage of the motor.	380V (0V~2000V)	STOP
d07.06 (0x6706)	Rated Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the rated current of the motor.	5.0A (0.1A~3000.0A)	STOP
d07.07 (0x6707)	Auto-tuning	V/F SVC FVC PMV/F PMSVC PMFVC After the parameter auto-tuning is finished, [F02.07] will be set to "0" automatically. 0: None 1: Rotary auto-tuning 2: Static auto-tuning 3: Stator resistance auto-tuning; 9: PM inductance saturation coefficient auto-tuning	0 (0~20)	STOP
d07.08 (0x6708)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor auto-tuning flag.	0x0000 (0x0000~0xFFFF)	READ
d07.09 (0x6709)	ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor ID.	0x0000 (0x0000~0xFFFF)	STOP

d07.1x: AM Parameters

Code (Address)	Name	Content	Default (Range)	Property
d07.10 (0x670A)	No-load Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the no-load current for asynchronous motors.	Up to model (0.1A~3000.0A)	STOP
d07.11 (0x670B)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for asynchronous motors.	Up to model (1mΩ~65535mΩ)	STOP
d07.12 (0x670C)	Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the rotor resistance for asynchronous motors.	Up to model (1mΩ~65535mΩ)	STOP
d07.13 (0x670D)	Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator leakage inductance for asynchronous motors.	Up to model (1mH~6553.5mH)	STOP
d07.14	Stator	V/F SVC FVC PMV/F PMSVC PMFVC	Up to model	STOP

(0x670E)	Inductance	Set the stator inductance for asynchronous motors.	(1mH~65535mH)	
d07.15 (0x670F)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance.	Up to model (0.01%~655.35%)	READ
d07.16 (0x6710)	Per-unit Rotor Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit rotor resistance.	Up to model (0.01%~655.35%)	READ
d07.17 (0x6711)	Per-unit Stator Leakage Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator leakage inductance.	Up to model (0.01%~655.35%)	READ
d07.18 (0x6712)	Per-unit Stator Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator inductance.	Up to model (0.1%~6553.5%)	READ
d07.19 (0x6713)	Parameter Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the parameter range.	0x0000 (0x0000~0xFFFF)	STOP

d07.2x: PM Parameters

Code (Address)	Name	Content	Default (Range)	Property
d07.20 (0x6714)	Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance for permanent magnet synchronous motors.	Up to model (1mΩ~65535mΩ)	STOP
d07.21 (0x6715)	Per-unit D-axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~65535mH)	STOP
d07.22 (0x6716)	Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance for permanent magnet synchronous motors.	Up to model (1mH~65535mH)	STOP
d07.23 (0x6717)	Back Emf	V/F SVC FVC PMV/F PMSVC PMFVC Set the back emf for permanent magnet synchronous motors. Only rotary auto-tuning is recognized.	Up to model (0V~1500V)	STOP
d07.24 (0x6718)	Encoder Angle	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder installation angle for permanent magnet synchronous motors.	Up to model (0.0°~360.0°)	RUN
d07.25 (0x6719)	Per-unit Stator Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit stator resistance for permanent magnet synchronous motors.	Up to model (0.01%~655.35%)	READ
d07.26 (0x671A)	Per-unit D-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit D-axis inductance for permanent magnet synchronous motors.	Up to model (0.01%~655.35%)	READ
d07.27 (0x671B)	Per-unit Q-Axis Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the per-unit D-axis inductance for permanent magnet synchronous motors.	Up to model (0.01%~655.35%)	READ
d07.28 (0x671C)	Pulse Width Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the pulse width coefficient for permanent magnet synchronous motors.	Up to model (0.01~655.35)	STOP
d07.29 (0x671D)	Actual Value Unit	V/F SVC FVC PMV/F PMSVC PMFVC Select the unit for actual value.	Up to model (0x0000~0x3322)	STOP
d07.30 (0x671E)	Frequency Decimal Bit	V/F SVC FVC PMV/F PMSVC PMFVC Display the decimal bit of motor frequency.	0 (0~3)	STOP

d07.4x~d07.5x: PM D/Q-Axis Inductance Saturation Coefficient

Code (Address)	Name	Content	Default (Range)	Property
d07.40 (0x6728)	D-Axis Inductance Saturation Coefficient 0	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 0 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.41 (0x6729)	D-Axis Inductance Saturation Coefficient 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.42 (0x672A)	D-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.43 (0x672B)	D-Axis Inductance Saturation Coefficient 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.44 (0x672C)	D-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.45 (0x672D)	D-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.46 (0x672E)	D-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.47 (0x672F)	D-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.48 (0x6730)	D-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.49 (0x6731)	D-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.50 (0x6732)	Q-Axis Inductance Saturation Coefficient 0	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 0 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.51	Q-Axis	V/F SVC FVC PMV/F PMSVC PMFVC	100.0%	RUN

(0x6733)	Inductance Saturation Coefficient 1	Set the Q-axis inductance saturation coefficient 1 for permanent magnet synchronous motors.	(0.1%~2000.0%)	
d07.52 (0x6734)	Q-Axis Inductance Saturation Coefficient 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 2 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.53 (0x6735)	Q-Axis Inductance Saturation Coefficient 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 3 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.54 (0x6736)	Q-Axis Inductance Saturation Coefficient 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 4 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.55 (0x6737)	Q-Axis Inductance Saturation Coefficient 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 5 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.56 (0x6738)	Q-Axis Inductance Saturation Coefficient 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 6 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.57 (0x6739)	Q-Axis Inductance Saturation Coefficient 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 7 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.58 (0x673A)	Q-Axis Inductance Saturation Coefficient 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 8 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN
d07.59 (0x673B)	Q-Axis Inductance Saturation Coefficient 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis inductance saturation coefficient 9 for permanent magnet synchronous motors.	100.0% (0.1%~2000.0%)	RUN

d07.6x~d07.7x: Tuning Extension

Code (Address)	Name	Content	Default (Range)	Property
d07.60 (0x673C)	Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Tuning only without updating >1: Tuning and updating	0x0000 (0x0000~0xFFFF)	STOP
d07.61 (0x673D)	Auto-tuning Flag	V/F SVC FVC PMV/F PMSVC PMFVC Set the stator resistance tuning coefficient 1.	0x0000 (0x0000~0xFFFF)	RUN
d07.62 (0x673E)	Resistor Online Tuning	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Auto-tuning after power-up 2: Auto-tuning after start	0 (0~3)	RUN

		3: Auto-tuning during operation		
d07.63 (0x673F)	Resistor Tuning Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor tuning rate.	0 (0~1000)	RUN
d07.64 (0x6440)	Resistor Tuning Increment	V/F SVC FVC PMV/F PMSVC PMFVC Set the resistor online tuning increment.	0.00% (0.00%~20.00%)	RUN
d07.65 (0x6741)	Resistor Tuning Bus Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the mean bus voltage for resistor online tuning.	0 (00~65535)	RUN
d07.66 (0x6742)	Resistor Stabilizing Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the stabilizing time for resistor online tuning.	0 (0~65535)	RUN
d07.67 (0x6743)	V-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the V-phase current gain.	1024 (1024~2048)	RUN
d07.68 (0x6744)	W-phase Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the W-phase current gain.	1024 (1024~2048)	RUN
d07.69 (0x6745)	Electric Angle Compensati on	V/F SVC FVC PMV/F PMSVC PMFVC Set the electric angle compensation.	0.0 (0.0~6553.5)	RUN
d07.70 (0x6746)	Deadtime Compensati on Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the deadtime compensation gain.	0 (0~65535)	RUN
d07.71 (0x6747)	Actual Deadtime	V/F SVC FVC PMV/F PMSVC PMFVC Set the actual value of deadtime.	0.00 (0~655.35)	RUN
d07.72 (0x6748)	PM Pole Search	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: SVC Tens-bit: FVC 0: OFF 1: ON 2: ON during the first power-up	0x0010 (0000~F223)	STOP
d07.73 (0x6749)	Pole Search Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the value of pole search current.	0.0 (0.0~6553.5)	STOP
d07.74 (0x674A)	Pole Search Current Feedback	V/F SVC FVC PMV/F PMSVC PMFVC Record the value of pole search current feedback.	0.0 (0.0~6553.5)	STOP
d07.75 (0x674B)	PM Inductance Tuning Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning frequency for permanent magnet synchronous motors.	300.00Hz (0.00Hz~600.00Hz)	STOP
d07.76 (0x674C)	PM Inductance Tuning Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the inductance tuning current for permanent magnet synchronous motors.	0.0 (0.0~180.0)	STOP
d07.77 (0x674D)	LC Filter Inductance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter inductance.	0.000 (0.000~65.000)	STOP
d07.78 (0x674E)	LC Filter Resistance	V/F SVC FVC PMV/F PMSVC PMFVC Set the LC filter resistance.	0.0 (0.0~6500.0)	STOP

4.30 d08: Motor 4 Vector Control

d08.0x: ASR Control

Code (Address)	Name	Content	Default (Range)	Property
d08.00 (0x6800)	Rigidity Level	V/F SVC FVC PMV/F PMSVC PMFVC Set the rigidity level, the higher the level, the better the speed rigidity.	32 (0~128)	RUN
d08.02 (0x6802)	Proportional Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at high speed.	10.00 (0.01~100.00)	RUN
d08.03 (0x6803)	Integral Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR integral time at high speed.	0.100s (0.000s~6.000s)	RUN
d08.04 (0x6804)	Filter Time 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at high speed.	0.0ms (0.0ms~100.0ms)	RUN
d08.05 (0x6805)	Shift Frequency 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at high speed.	0.00Hz (0.00Hz~Max. frequency)	RUN
d08.06 (0x6806)	Proportional Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR proportional gain at low speed.	10.00 (0.01~100.00)	RUN
d08.07 (0x6807)	Integral Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR integral time at low speed.	0.100s (0.000s~6.000s)	RUN
d08.08 (0x6808)	Filter Time 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR filter time at low speed.	0.0ms (0.0ms~100.0ms)	RUN
d08.09 (0x6809)	Shift Frequency 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ASR shift frequency at low speed.	0.00Hz (0.00Hz~d08.05)	RUN

d08.1x: ACR and Torque Limit

Code (Address)	Name	Content	Default (Range)	Property
d08.10 (0x680A)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis proportional gain.	1.000 (0.001~4.000)	RUN
d08.11 (0x680B)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop D-axis integral gain.	1.000 (0.001~4.000)	RUN
d08.12 (0x680C)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis proportional gain.	1.000 (0.001~4.000)	RUN
d08.13 (0x680D)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the current loop Q-axis integral gain.	1.000 (0.001~4.000)	RUN
d08.14 (0x680E)	Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Voltage feedforward control 0: OFF 1: ON Tens-bit: Current prediction control 0: OFF 1: ON Hundreds-bit: Current loop gain 0: OFF 1: ON	0x0000 (0x0000~0x0111)	RUN
d08.15 (0x680F)	Motoring Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit when motor is running with load.	250.0% (0.0%~400.0%)	RUN

d08.16 (0x6810)	Generating Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque limit in power generation mode.	250.0% (0.0%~400.0%)	RUN
d08.17 (0x6811)	Motoring Torque Limit Source	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 communication (0x3014) 7: Reserved (0x31 group)	0 (0~7)	RUN
d08.18 (0x6812)	Regenerating Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed. 0: Keypad 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL 6: RS485 communication (0x3015) 7: Reserved (0x31 group)	0 (0~7)	RUN
d08.19 (0x6813)	Torque Limit View	V/F SVC FVC PMV/F PMSVC PMFVC View the given torque limits. 0: C00.06 display the torque limit value during motoring 1: C00.06 display the torque limit value during generating	0x0000 (0x0000~0x0177)	RUN

d08.2x: Torque Optimization

Code (Address)	Name	Content	Default (Range)	Property
d08.20 (0x6814)	PM LF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	20.0% (0.0%~50.0%)	RUN
d08.21 (0x6815)	PM HF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, the larger the dragging current, the larger the torque output.	10.0% (0.0%~50.0%)	RUN
d08.22 (0x6816)	PM Drag Frequency	V/F SVC FVC PMV/F PMSVC PMFVC The set value 100.0% corresponds to F01.10 [Max. Frequency].	10.0% (0.0%~100.0%)	RUN
d08.23 (0x6817)	AM Slip Compensation	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation for asynchronous motors.	100.0% (0.0%~250.0%)	RUN
d08.24 (0x6818)	Initial Starting Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the initial starting torque.	0.0% (0.0%~250.0%)	RUN
d08.25 (0x6819)	AFR Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control gain.	0.0 (0.0~1000.0)	RUN
d08.26 (0x681A)	Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	0.0 (0.0~1000.0)	RUN
d08.27 (0x681B)	AFR Reference Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux given gain.	0.0 (0.0~200.0)	RUN
d08.28 (0x681C)	Torque Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the torque range.	0x0000 (0x0000~0xFFFF)	RUN

d08.29 (0x681D)	Flux Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux range.	0.0% (0.0%~150.0%)	RUN
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d08.3x: Flux Optimization

Code (Address)	Name	Content	Default (Range)	Property
d08.30 (0x681E)	Field-weakening Feed-forward Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the feed-forward coefficient under field weakening control.	10.0% (0.0%~500.0%)	RUN
d08.31 (0x681F)	Field-weakening Control Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the control gain under field weakening control.	10.0% (0.0%~500.0%)	RUN
d08.32 (0x6820)	Field-weakening Current Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the current upper limit under field weakening control.	60.0% (0.0%~250.0%)	RUN
d08.33 (0x6821)	Field-weakening Voltage Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage coefficient under field weakening control.	97.0% (0.0%~120.0%)	RUN
d08.34 (0x6822)	Output Power Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the motor output power range.	250.0% (0.0%~400.0%)	RUN
d08.35 (0x6823)	Over-excitation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation gain.	100.0% (0.0%~500.0%)	RUN
d08.36 (0x6824)	Over-excitation Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the over-excitation range.	100.0% (0.0%~250.0%)	RUN
d08.37 (0x6825)	ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	RUN
d08.38 (0x6826)	Min ECO Excitation	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower limit of energy-saving excitation.	50.0% (0.0%~80.0%)	RUN
d08.39 (0x6827)	ECO Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the filter time of energy-saving running.	0.010s (0.000s~6.000s)	RUN

d08.4x: PM HF Injection

Code (Address)	Name	Content	Default (Range)	Property
d08.40 (0x6828)	HF Injection Mode	V/F SVC FVC PMV/F PMSVC PMFVC When the SVC mode of the PM is on, please select 0 with SPM and 0~5 with IPM. 0: OFF 1~5: ON, the greater the value, the higher the injection frequency.	0 (0~1)	STOP
d08.41 (0x6829)	HF Injection Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the injection voltage range (relative to rated voltage). It is the result of auto-tuning, so there's no need to modify it.	10.0% (0.0%~100.0%)	RUN
d08.42 (0x683A)	HF Injection OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency injection range (relative to motor rated frequency). It is valid when the motor speed is lower than this value.	0.0% (0.0%~100.0%)	RUN
d08.43 (0x682B)	HF Injection Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated gain for high-frequency injection speed.	500 (0~65535)	RUN
d08.44 (0x682C)	HF Injection Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated integral gain for high-frequency injection speed.	100 (0~65535)	RUN
d08.45 (0x682D)	HF Injection Debugging	V/F SVC FVC PMV/F PMSVC PMFVC Debug the high-frequency injection.	0 (0~65535)	RUN
d08.46 (0x682E)	HF Injection Carrier	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency injection carrier.	0 (0~10)	RUN

d08.5x~08.6x: VC Extension

Code (Address)	Name	Content	Default (Range)	Property
d08.50 (0x6832)	Max. ACR Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the position compensation under speed control to realize zero servo or raise system rigidity.	50.0 (0.0~100.0)	STOP
d08.51 (0x6833)	Min. Current Error	V/F SVC FVC PMV/F PMSVC PMFVC It is used for debugging.	0.0 (0.0~102.4)	RUN
d08.52 (0x6834)	IF Control Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the current under IF control, where 100% equals the motor's rated current.	60.0% (0.0%~400.0%)	RUN
d08.53 (0x6835)	IF Control Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency under IF control.	0.0% (0.0%~100.0%)	RUN
d08.60 (0x683C)	PM MTPA Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA gain of the permanent magnet synchronous motor.	100.0 (0.0~400.0)	RUN
d08.61 (0x683D)	PM MTPA Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the MTPA filter time for permanent magnet synchronous motors.	1.0 (0.0~100.0)	RUN
d08.65 (0x6841)	Regenerativ e Torque Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the regenerative torque limit at low speed.	0.0% (0.0%~400.0%)	RUN
d08.66 (0x6842)	LS Regenerativ e Torque	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency range limited by torque when at low speed.	6.00% (0.00%~30.00%)	RUN

	Limit Frequency			
d08.70 (0x6846)	Estimated SVC Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated open loop gain 1.	1.000 (0.000~8.000)	RUN
d08.71 (0x6847)	Estimated SVC Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated open loop gain 2.	1.000 (0.000~8.000)	RUN
d08.72 (0x6848)	Generating Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the generating gain.	30.0% (0.0%~6553.5%)	RUN
d08.73 (0x6849)	SPLL Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 1.	3.000 (0.000~65.535)	RUN
d08.74 (0x684A)	SPLL Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the SPLL gain 2.	1.000 (0.000~65.535)	RUN
d08.75 (0x684B)	Angle Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle error limit.	10.0 (0.0~100.0)	RUN
d08.76 (0x684C)	Angle Hysteresis Error	V/F SVC FVC PMV/F PMSVC PMFVC Set the angle hysteresis error limit.	10.0 (0.0~100.0)	RUN
d08.77 (0x684D)	Direct Flux Vector Optimization	V/F SVC FVC PMV/F PMSVC PMFVC Optimize the direct flux vector mode.	0 (0~65535)	RUN
d08.78 (0x684E)	Min. Direct Flux Vector Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for direct flux vector mode.	1.0% (0.0%~6000.0%)	RUN
d08.79 (0x684F)	Min. Flux FVC Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the min. frequency for flux closed loop mode.	10.0% (0.0%~6000.0%)	RUN
d08.80 (0x6850)	Estimated Direct Flux Vector Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the estimated gain under direct flux vector mode.	1000 (0~65535)	RUN
d08.81 (0x6851)	AFO Gain 1	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO1 control gain.	1.000 (0.000~65.535)	RUN
d08.82 (0x6852)	AFO Gain 2	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO2 control gain.	1.000 (0.000~65.535)	RUN
d08.83 (0x6853)	AFO Gain 3	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO3 control gain.	1.000 (0.000~65.535)	RUN
d08.84 (0x6854)	AFO Gain 4	V/F SVC FVC PMV/F PMSVC PMFVC Adjust the AFO4 control gain.	1.000 (0.000~65.535)	RUN

4.31 d09: Motor 4 V/F Control

d09.0x: V/F Control

Code (Address)	Name	Content	Default (Range)	Property
d09.00 (0x6900)	V/F Curve	V/F SVC FVC PMV/F PMSVC PMFVC Select the type of V/F curve according to different load characteristics. 0: Linear V/F curve 1~9: 1.1-1.9 power V/F curves respectively 10: Square V/F curve 11: Custom V/F curve	0 (0~11)	STOP
d09.01 (0x6901)	Torque Boost	V/F SVC FVC PMV/F PMSVC PMFVC 0.0%: Automatic torque boost 0.1%~30.0%: Manual torque boost	Up to model (0.0%~30.0%)	RUN
d09.02 (0x6902)	Torque Boost OFF	V/F SVC FVC PMV/F PMSVC PMFVC Set the range of the torque boost. The torque boost	100.0% (0.0%~100.0%)	RUN

	Frequency	will be cut off when the output frequency exceeds this value.		
d09.03 (0x6903)	Slip Compensation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation gain.	0.0% (0.0%~200.0%)	RUN
d09.04 (0x6904)	Slip Compensation Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the slip compensation range.	100.0% (0.0%~300.0%)	RUN
d09.05 (0x6905)	Slip Compensation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Enter the parameters on the motor's nameplate correctly to implement parameter tuning for best effect.	0.200s (0.000s~6.000s)	RUN
d09.06 (0x6906)	Anti-oscillation Gain	V/F SVC FVC PMV/F PMSVC PMFVC Adjust this value to suppress low-frequency resonance, but it should not be too large or it will cause instability.	100.0% (0.0%~900.0%)	RUN
d09.07 (0x6907)	Anti-oscillation Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation filter time.	1.0s (0.0s~100.0s)	RUN
d09.08 (0x6908)	Output Voltage Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage, 100% of it corresponds to the motor rated voltage.	100.0% (25.0%~120.0%)	STOP
d09.09 (0x6909)	Min. Overcurrent Suppression Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the overcurrent suppression lower limit frequency.	0.00 (0.00~50.00)	RUN

d09.1x: User-defined V/F Curve

Code (Address)	Name	Content	Default (Range)	Property
d09.10 (0x690A)	V1 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V1 (user-defined voltage).	3.0% (0.0%~100.0%)	STOP
d09.11 (0x690B)	F1 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F1 (user-defined frequency).	1.00Hz (0.00Hz~Max. frequency)	STOP
d09.12 (0x690C)	V2 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V2 (user-defined voltage).	28.0% (0.0%~100.0%)	STOP
d09.13 (0x690D)	F2 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F2 (user-defined frequency).	10.00Hz (0.00Hz~Max. frequency)	STOP
d09.14 (0x690E)	V3 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V3 (user-defined voltage).	55.0% (0.0%~100.0%)	STOP
d09.15 (0x690F)	F3 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F3 (user-defined frequency).	25.00Hz (0.00Hz~Max. frequency)	STOP
d09.16 (0x6910)	V4 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V4 (user-defined voltage).	78.0% (0.0%~100.0%)	STOP
d09.17 (0x6911)	F4 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F4 (user-defined frequency).	37.50Hz (0.00Hz~Max. frequency)	STOP

	Frequency)			
d09.18 (0x6912)	V5 (User-defined Voltage)	V/F SVC FVC PMV/F PMSVC PMFVC Set the V5 (user-defined voltage).	100.0% (0.0%~100.0%)	STOP
d09.19 (0x6913)	F5 (User-defined Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the F5 (user-defined frequency).	50.00Hz (0.00Hz~Max. frequency)	STOP

d09.2x: VF-SPLIT Control

Code (Address)	Name	Content	Default (Range)	Property
d09.20 (0x6914)	Voltage Source A	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value 9999: K	0x0000 (0x0000~0x0599)	RUN
d09.21 (0x6915)	Voltage Source B	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage percentage 1: Reserved 2: AI1 3: AI2 4: Reserved 5: PUL terminal 6: RS485 communication 7: Reserved (0x31) 8: PID 9: Voltage value 9999: K	0x0000 (0x0000~0xFFFF)	RUN
d09.22 (0x6916)	Voltage Source Combination	V/F SVC FVC PMV/F PMSVC PMFVC 0: Source A 1: Source B 2: Source A+Source B 3: Source A-Source B 4: Max. (A or B) 5: Min. (A or B)	0x0000 (0x0000~0xFFFF)	RUN
d09.23 (0x6917)	Output Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the output voltage percentage under V/F-SPLIT control, 100.0% of it corresponds to the motor rated voltage.	0.00% (0.00%~110.00%)	RUN
d09.24 (0x6918)	Voltage ACC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration time under V/F-SPLIT control.	10.00s (0.00s~100.00s)	RUN
d09.25 (0x6919)	Voltage DEC Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage deceleration time under V/F-SPLIT control.	10.00s (0.00s~100.00s)	RUN
d09.26 (0x691A)	Stop Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the stop mode under V/F-SPLIT control. 0: No relationship between ACC/DEC of output voltage and frequency 1: Output frequency drops after the output voltage drops to 0V.	0 (0~1)	RUN

d09.27 (0x691B)	Voltage Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage value under V/F-SPLIT control.	0.00V (0.00V~600.00V)	RUN
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d09.3x: V/F ECO Control

Code (Address)	Name	Content	Default (Range)	Property
d09.30 (0x691E)	V/F ECO Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	STOP
d09.31 (0x691F)	Min. Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower frequency limit of the ECO mode.	15.0Hz (0.0Hz~50.0Hz)	STOP
d09.32 (0x6920)	Min. Voltage	V/F SVC FVC PMV/F PMSVC PMFVC Set the lower voltage limit of the ECO mode.	50.0% (20.0%~100.0%)	STOP
d09.33 (0x6921)	DEC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage declaration rate in the ECO mode.	0.010V/ms (0.000V/ms~ 0.2000V/ms)	RUN
d09.34 (0x6922)	ACC Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the voltage acceleration rate in the ECO mode.	0.200V/ms (0.000V/ms~ 2.000V/ms)	RUN
d09.35 (0x6923)	Over-excita tion Coefficient	V/F SVC FVC PMV/F PMSVC PMFVC It is valid when tens-bit of F10.11 is not zero; at the same output frequency, the output voltage increases with increasing bus voltage.	64 (0~200)	RUN

d09.4x: V/F PM Anti-oscillation

Code (Address)	Name	Content	Default (Range)	Property
d09.40 (0x6928)	Damper Proportiona l Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain.	5.0% (0%~400.0%)	RUN
d09.41 (0x6929)	Damper Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper filter time.	0s (0s~100.0s)	RUN
d09.42 (0x692A)	Damper Output Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper output range.	5.0% (0%~100.0%)	RUN
d09.43 (0x692B)	Active Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the active current filter bandwidth.	5.000Hz (0Hz~65535Hz)	RUN
d09.44 (0x692C)	Damper Weakening Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening coefficient.	20.0% (0%~100.0%)	RUN
d09.45 (0x692D)	Damper Weakening Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the damper proportional gain weakening frequency.	20.0% (0%~100.0%)	RUN
d09.46 (0x692E)	Anti-oscilla tion Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the anti-oscillation start frequency.	64% (0%~F4.79%)	RUN

d09.5x: V/F PM Flux Control

Code (Address)	Name	Content	Default (Range)	Property
d09.50 (0x6932)	Flux Control	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control.	30.0% (0%~500.0%)	RUN
d09.51 (0x6933)	Proportiona l Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control proportional gain.	1000 (0~9999)	RUN

d09.52 (0x6934)	Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux control integral gain.	1000 (0~9999)	RUN
d09.53 (0x6935)	Controller Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller frequency.	5.0% (0%~100.0%)	RUN
d09.54 (0x6936)	Controller Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the flux controller time.	7.0s (0s~100.0s)	RUN

d09.6x: V/F PM Current Control

Code (Address)	Name	Content	Default (Range)	Property
d09.60 (0x693C)	D-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis current gain.	0.500 (0~10.000)	RUN
d09.61 (0x693D)	Q-Axis Current Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis current gain.	0.500 (0~10.000)	RUN
d09.62 (0x693E)	D-Axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis feedforward gain.	0 (0~10.000)	RUN
d09.63 (0x693F)	Q-Axis Feedforward Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis feedforward gain.	1.000 (0~10.000)	RUN
d09.64 (0x6940)	D-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control proportional gain.	50.0% (0%~200.0%)	RUN
d09.65 (0x6941)	D-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis control integral gain.	80.0% (0%~1000.0%)	RUN
d09.66 (0x6942)	D-Axis LF Current Proportional Gain Boost	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis low-frequency current proportional gain boost.	0% (0%~100.0%)	RUN
d09.67 (0x6943)	Q-Axis Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control proportional gain.	100.0% (0%~6553.5%)	RUN
d09.68 (0x6944)	Q-Axis Integral Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the Q-axis control integral gain.	100.0% (0%~6553.5%)	RUN
d09.69 (0x6945)	D-Axis Weakening Integral	V/F SVC FVC PMV/F PMSVC PMFVC Set the D-axis integral weakening coefficient.	1000 (0~1024)	RUN
d09.70 (0x6946)	D-Axis Proportional Gain Shift Start Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the start frequency for D-axis proportional gain shifting.	80.0% (0%~6553.5%)	STOP
d09.71 (0x6947)	D-Axis Proportional Gain Shift OFF Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the OFF frequency for D-axis proportional gain shifting.	120.0% (0%~6553.5%)	RUN
d09.72 (0x6948)	HF D-Axis Current Proportional Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency D-axis current control proportional gain.	100.0% (0%~200.0%)	RUN
d09.73 (0x6949)	D-Axis Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the D-axis current low-pass	11.000Hz (0Hz~65.535Hz)	RUN

	Filter Bandwidth	filter.		
d09.74 (0x694A)	Q-Axis Current Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the bandwidth of the Q-axis current low-pass filter.	11.000Hz (0Hz~65.535Hz)	RUN
d09.75 (0x694B)	D-Axis Filter Bandwidth	V/F SVC FVC PMV/F PMSVC PMFVC Set the given D-axis filter bandwidth.	1.000Hz (0Hz~65.535Hz)	RUN
d09.76 (0x694C)	Light-load Current I_q Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the light-load current I_q threshold.	20.0% (0%~50.0%)	RUN
d09.77 (0x694D)	Current I_d Weakening Amplitude	V/F SVC FVC PMV/F PMSVC PMFVC Set the current I_d weakening amplitude.	50.0% (0%~100.0%)	RUN
d09.78 (0x694E)	Efficient Current I_d Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the efficient current I_d value.	0% (0%~50.0%)	RUN
d09.79 (0x694F)	Shift Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency.	10.0% (0%~50.0%)	RUN
d09.80 (0x6950)	Shift Frequency Range	V/F SVC FVC PMV/F PMSVC PMFVC Set the shift frequency range.	0% (0%~50.0%)	RUN
d09.81 (0x6951)	Control Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the control mode for the PM voltage vector algorithm.	0x1021 (0x0000~0x1121)	RUN
d09.82 (0x6952)	LF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the low-frequency dragging current.	100.0% (0%~200.0%)	RUN
d09.83 (0x6953)	LF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for low-frequency dragging current.	10.0% (0%~100.0%)	RUN
d09.84 (0x6954)	HF Drag Current	V/F SVC FVC PMV/F PMSVC PMFVC Set the high-frequency dragging current.	10.0% (0%~200.0%)	RUN
d09.85 (0x6955)	HF Drag Current Frequency	V/F SVC FVC PMV/F PMSVC PMFVC Set the frequency for high-frequency dragging current.	15.0% (0%~100.0%)	RUN

4.32 E00: IO Extension Input

E00.0x: Extension Parameters

Code (Address)	Name	Content	Default (Range)	Property
E00.00 (0x7000)	Extension IO1 Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Slot 1 2: Slot 2 3: Slot 3	1 (0~3)	READ
E00.01 (0x7001)	Extension IO2 Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Slot 1 2: Slot 2 3: Slot 3	0 (0~3)	STOP
E00.02 (0x7002)	Extension IO3 Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Slot 1 2: Slot 2 3: Slot 3	0 (0~3)	STOP

E00.1x~3x: Extension DI Terminal

Code (Address)	Name	Content	Default (Range)	Property
E00.10 (0x700A)	X7 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	0 (0~95)	STOP
E00.11 (0x700B)	X8 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	0 (0~95)	STOP
E00.12 (0x700C)	X9 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	0 (0~95)	STOP
E00.13 (0x700D)	X10 Function	V/F SVC FVC PMV/F PMSVC PMFVC See the function of terminal X.	0 (0~95)	STOP
E00.18 (0x7012)	X7~X10 Characteristics	V/F SVC FVC PMV/F PMSVC PMFVC 0: ON when closed 1: ON when open Ones-bit: X7 terminal Tens-bit: X8 terminal Hundreds-bit: X9 terminal Thousands-bit: X10 terminal	0x0000 (0x0000~ 0x1111)	RUN
E00.20 (0x7014)	X7 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X7 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
E00.21 (0x7015)	X7 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X7 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
E00.22 (0x7016)	X8 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X8 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
E00.23 (0x7017)	X8 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X8 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
E00.24 (0x7018)	X9 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X9 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
E00.25 (0x7019)	X9 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X9 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
E00.26 (0x701A)	X10 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X10 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
E00.27 (0x701B)	X10 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal X10 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN

E00.4x~5x: Extension AI Terminal

Code (Address)	Name	Content	Default (Range)	Property
E00.40 (0x7028)	AI3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Voltage 0.00V~10.00V 1: Current 0.00mA~20.00mA	0 (0~1)	RUN
E00.41 (0x7029)	AI Curve	V/F SVC FVC PMV/F PMSVC PMFVC 0: Line 1 (default) 1: Line 2 2: Curve 1 3: Curve 2	0x0000 (0x0000~ 0x0003)	STOP
E00.42 (0x702A)	Line 1 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is below this value, drive will process by this setting.	0.0% (-100.0%~ 100.0%)	RUN
E00.43 (0x702B)	Line 1 Lower Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 1 lower limit.	0.00% (-100.00%~ 100.00%)	RUN
E00.44 (0x702C)	Line 1 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is above this value, drive will process by this setting.	100.0% (-100.0%~ 100.0%)	RUN
E00.45 (0x702D)	Line 1 Upper Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 1 upper limit.	100.00% (-100.00%~ 100.00%)	RUN
E00.46 (0x702E)	Line 1 Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the analog signal to remove interfering signals.	0.100s (0.000s~6.000s)	STOP
E00.47 (0x702F)	Line 2 Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is below this value, drive will process by this setting.	0.0% (-100.0%~ 100.0%)	RUN
E00.48 (0x7030)	Line 2 Lower Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 2 lower limit.	0.00% (-100.00%~ 100.00%)	RUN
E00.49 (0x7031)	Line 2 Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Define the signal received by the terminal. If the voltage signal is above this value, drive will process by this setting.	100.0% (-100.0%~ 100.0%)	RUN
E00.50 (0x7032)	Line 2 Upper Limit Percentage	V/F SVC FVC PMV/F PMSVC PMFVC Set the percentage of the line 2 upper limit.	100.00% (-100.00%~ 100.00%)	RUN
E00.51 (0x7033)	Line 2 Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the analog signal to remove interfering signals.	0.100s (0.000s~6.000s)	RUN

E00.5x~7x: Extension PT Terminal

Code (Address)	Name	Content	Default (Range)	Property
E00.55 (0x7037)	PT Terminal Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: PT100 2: PT1000 3: KTY84 Ones-bit: PT1 type Tens-bit: PT2 type Hundreds-bit: PT3 type	0x0201 (0x0000~ 0x0311)	RUN

E00.56 (0x7038)	Temp. Alarm Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Report alarm and free stop 2: Report alarm and continue operation Ones-bit: Temp.1 mode Tens-bit: Temp.2 mode Hundreds-bit: Temp.3 mode	0x0000 (0x0000~0x2222)	RUN
E00.57 (0x7039)	Temp.1 Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: PT1 terminal 2: PT2 terminal 3: PT3 terminal	1 (0~3)	RUN
E00.58 (0x703A)	Overheat Error 1 Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat error threshold for temperature 1.	120.0 (0.0~200.0)	RUN
E00.59 (0x703B)	Overheat Error 1 Hysteresis	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat error hysteresis for temperature 1.	5.0 (0.0~20.0)	RUN
E00.60 (0x703C)	Overheat Alarm 1 Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat alarm threshold for temperature 1.	90.0 (90.0~150.0)	RUN
E00.61 (0x703D)	Overheat Alarm 1 Hysteresis	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat alarm hysteresis for temperature 1.	5.0 (0.0~20.0)	RUN
E00.62 (0x703E)	Temp.2 Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: PT1 terminal 2: PT2 terminal 3: PT3 terminal	1 (0~3)	RUN
E00.63 (0x703F)	Overheat Error 2 Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat error threshold for temperature 2.	120.0 (0.0~200.0)	RUN
E00.64 (0x7040)	Overheat Error 2 Hysteresis	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat error hysteresis for temperature 2.	5.0 (0.0~20.0)	RUN
E00.65 (0x7041)	Overheat Alarm 2 Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat alarm threshold for temperature 2.	90.0 (90.0~150.0)	RUN
E00.66 (0x7042)	Overheat Alarm 2 Hysteresis	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat alarm hysteresis for temperature 2.	5.0 (0.0~20.0)	RUN
E00.67 (0x7043)	Temp.3 Source	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: PT1 terminal 2: PT2 terminal 3: PT3 terminal	1 (0~3)	RUN
E00.68 (0x7044)	Overheat Error 3 Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat error threshold for temperature 3.	120.0 (0.0~200.0)	RUN
E00.69 (0x7045)	Overheat Error 3 Hysteresis	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat error hysteresis for temperature 3.	5.0 (0.0~20.0)	RUN
E00.70 (0x7046)	Overheat Alarm 3 Threshold	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat alarm threshold for temperature 3.	90.0 (90.0~150.0)	RUN
E00.71 (0x7047)	Overheat Alarm 3 Hysteresis	V/F SVC FVC PMV/F PMSVC PMFVC Set the overheat alarm hysteresis for temperature 3.	5.0 (0.0~20.0)	RUN

4.33 E01: IO Extension Output

E01.0x~1x: Extension DO Terminal

Code (Address)	Name	Content	Default (Range)	Property
E01.00 (0x7100)	Y2 Terminal	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	1 (0~63)	RUN
E01.01 (0x7101)	Relay 1 Terminal R3	V/F SVC FVC PMV/F PMSVC PMFVC See the functions of terminal Y.	4 (0~63)	RUN
E01.08 (0x7108)	Polarity	V/F SVC FVC PMV/F PMSVC PMFVC 0: Positive 1: Negative Ones-bit: Extension terminal Y Tens-bit: Extension RO1	0x0000 (0x0000~ 0x1111)	RUN
E01.10 (0x710A)	Y2 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal Y output from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
E01.11 (0x710B)	Y2 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for terminal Y output from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN
E01.12 (0x710C)	R3 ON Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for R3 from OFF to ON.	0.010s (0.000s~ 60.000s)	RUN
E01.13 (0x710D)	R3 OFF Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for R3 from ON to OFF.	0.010s (0.000s~ 60.000s)	RUN

E01.3x: Extension AO3

Code (Address)	Name	Content	Default (Range)	Property
E01.30 (0x711E)	AO3 Mode	V/F SVC FVC PMV/F PMSVC PMFVC 0: 0V~10V 1: 4.00mA~20.00mA 2: 0.00mA~20.00mA 3: FM pulse 4: Fixed frequency	0 (0~4)	RUN
E01.31 (0x711F)	AO3 Content	V/F SVC FVC PMV/F PMSVC PMFVC 0: Given frequency 1: Output frequency 2: Output current 3: Input voltage 4: Output voltage 5: Mechanical speed 6: Given torque 7: Output torque 8: PID setting 9: PID feedback 10: Output power 11: Bus voltage 12: AI1 value 13: AI2 value 14: Reserved 15: PUL 16: Module temp. 1 17: Module temp. 2 18: 485 communication 19: vY1, 0 means OFF while 1 means ON 9999: K	0 (0~65535)	RUN

E01.32 (0x7120)	AO3 Gain	V/F SVC FVC PMV/F PMSVC PMFVC Set the gain value of the analog output.	100.0% (0.0%~300.0%)	RUN
E01.33 (0x7121)	AO3 Bias	V/F SVC FVC PMV/F PMSVC PMFVC Set the AO3 bias. Used to adjust the zero point of the terminal output.	0.0% (-10.0%~10.0%)	RUN
E01.34 (0x7122)	AO3 Filter	V/F SVC FVC PMV/F PMSVC PMFVC Define the size of the filter applied to the analog signal to remove interfering signals.	0.010s (0.000s~6.000s)	RUN
E01.35 (0x7123)	AO3 as FM Lower Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the output signal lower limit.	0.20kHz (0.00kHz~100.00kHz)	RUN
E01.36 (0x7124)	AO3 as FM Upper Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set AO3 as the upper limit of the FM frequency.	50.00kHz (0.00kHz~100.00kHz)	RUN

4.34 E02: Encoder 1 Parameters

E02.0x: Encoder 1 Environment

Code (Address)	Name	Content	Default (Range)	Property
E02.00 (0x7200)	Encoder Motor	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Motor 1 2: Motor 2 3: Motor 3 4: Motor 4	0 (0~4)	RUN
E02.01 (0x7201)	Encoder Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: ABZ 1: Resolver 2: Sine/Cosine 3: Reserved	0 (0~3)	RUN
E02.02 (0x7202)	Encoder Debug Register	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Monitor PG under SVC 0: OFF 1: ON Tens-bit: PG configuration 0: Filter ON 1: Filter OFF 3: Z-pulse accumulated error 4: Pulse clear	0x0000 (0x0000~0xFFFF)	RUN
E02.03 (0x7203)	Encoder Break Check	V/F SVC FVC PMV/F PMSVC PMFVC Detect for encoder break.	0 (0~1)	RUN
E02.04 (0x7204)	Encoder Break Check Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the time for encoder break check.	0.050s (0.000s~6.000s)	RUN
E02.05 (0x7205)	Encoder Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder filter time.	1.0 (0.0~100.0)	RUN

E02.1x: ABZ Parameters

Code (Address)	Name	Content	Default (Range)	Property
E02.10 (0x720A)	Direction	V/F SVC FVC PMV/F PMSVC PMFVC 0: Same direction 1: Opposite direction	0 (0~1)	STOP
E02.11 (0x720B)	Z Pulse Detection	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: FWD detection 2: REV detection	1 (0~2)	STOP

E02.12 (0x720C)	Line No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the number of lines for ABZ encoder.	1024 (0~16384)	RUN
E02.13 (0x720D)	Ratio Numerator	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder ratio numerator.	1 (1~32767)	RUN
E02.14 (0x720E)	Ratio Denominator	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder ratio denominator.	1 (1~32767)	RUN
E02.15 (0x720F)	Max. Z-pulse Lost No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the maximum Z-pulse lost number.	4 (0~65535)	RUN
E02.16 (0x7210)	Z-Pulse Tolerance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Z pulse allowable tolerance.	0.0% (0.0%~102.4%)	RUN
E02.17 (0x7211)	Z-pulse Tuning Circuit	V/F SVC FVC PMV/F PMSVC PMFVC Set the Z-pulse tuning circuit.	300 (0~8000)	RUN
E02.18 (0x7212)	Bandwidth Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder bandwidth limit.	0 (0~65535)	RUN

E02.2x: Resolver Encoder 1

Code (Address)	Name	Content	Default (Range)	Property
E02.20 (0x7214)	Pole No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the pole number of resolver encoder.	2 (2~128)	STOP
E02.21 (0x7215)	Hardware Check	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	1 (0~1)	STOP
E02.22 (0x7216)	Hardware Check No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the hardware check number of resolver encoder.	20 (0~1000)	RUN

E02.3x: Sine/Cosine Encoder 1

Code (Address)	Name	Content	Default (Range)	Property
E02.30 (0x721E)	Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: ABZ 1: Endat 2: SSI	0 (0~2)	STOP
E02.31 (0x721F)	Line No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the line number of the sine/cosine encoder.	20.48 (0.50~168.34)	STOP

4.35 E03: Encoder 2 Parameters

E03.0x: Encoder 2 Environment

Code (Address)	Name	Content	Default (Range)	Property
E03.00 (0x7300)	Encoder Motor	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: Motor 1 2: Motor 2 3: Motor 3 4: Motor 4	0 (0~4)	RUN
E03.01 (0x7301)	Encoder Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: ABZ 1: Resolver 2: Sine/Cosine 3: Reserved	0 (0~3)	RUN
E03.02 (0x7302)	Encoder Debug Register	V/F SVC FVC PMV/F PMSVC PMFVC Ones-bit: Monitor PG under SVC 0: OFF	0x0000 (0x0000~ 0xFFFF)	RUN

		1: ON Tens-bit: PG configuration 0: Filter ON 1: Filter OFF 3: Z-pulse accumulated error 4: Pulse clear		
E03.03 (0x7303)	Encoder Break Check	V/F SVC FVC PMV/F PMSVC PMFVC Detect for encoder break.	0 (0~1)	RUN
E03.04 (0x7304)	Encoder Break Check Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the time for encoder break check.	0.050s (0.000s~ 6.000s)	RUN
E03.05 (0x7305)	Encoder Filter Time	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder filter time.	1.0 (0.0~100.0)	RUN

E03.1x: ABZ Parameters

Code (Address)	Name	Content	Default (Range)	Property
E03.10 (0x730A)	Direction	V/F SVC FVC PMV/F PMSVC PMFVC 0: Same direction 1: Opposite direction	0 (0~1)	STOP
E03.11 (0x730B)	Z Pulse Detection	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: FWD detection 2: REV detection	1 (0~2)	STOP
E03.12 (0x730C)	Line No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the number of lines for ABZ encoder.	1024 (0~16384)	RUN
E03.13 (0x730D)	Ratio Numerator	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder ratio numerator.	1 (1~32767)	RUN
E03.14 (0x730E)	Ratio Denominator	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder ratio denominator.	1 (1~32767)	RUN
E03.15 (0x730F)	Max. Z-pulse Lost No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the maximum Z-pulse lost number.	4 (0~65535)	RUN
E03.16 (0x7600)	Z-Pulse Tolerance	V/F SVC FVC PMV/F PMSVC PMFVC Set the Z pulse allowable tolerance.	0.0% (0.0%~102.4%)	RUN
E03.17 (0x7311)	Z-pulse Tuning Circuit	V/F SVC FVC PMV/F PMSVC PMFVC Set the Z-pulse tuning circuit.	300 (0~8000)	RUN
E03.18 (0x7312)	Bandwidth Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the encoder bandwidth limit.	0 (0~65535)	RUN

E03.2x: Resolver Encoder 2

Code (Address)	Name	Content	Default (Range)	Property
E03.20 (0x7314)	Pole No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the pole number of resolver encoder.	2 (2~128)	STOP
E03.21 (0x7315)	Hardware Check	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	1 (0~1)	RUN
E03.22 (0x7316)	Hardware Check No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the hardware check number of resolver encoder.	20 (0~1000)	RUN

E03.3x: Sine/Cosine Encoder 2

Code (Address)	Name	Content	Default (Range)	Property
E03.30 (0x731E)	Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: ABZ	0 (0~2)	STOP

		1: Endat 2: SSI		
E03.31 (0x731F)	Line No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the line number of the sine/cosine encoder.	20.48 (0.50~168.34)	STOP

4.36 E04: Extension 1 Common Parameters

Code (Address)	Name	Content	Default (Range)	Property
E04.00 (0x7400)	Ex1 Communication Baud Rate	V/F SVC FVC PMV/F PMSVC PMFVC 8: 1Mbps 9: 2Mbps 10: 4Mbps	8 (8~10)	STOP
E04.01 (0x7401)	Ex1 Break Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for Ex1 bus break detection.	0 (0~65535)	STOP
E04.02 (0x7402)	Ex1 Break Auto Reset	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	STOP
E04.03 (0x7403)	Ex1 Break Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the limit for triggering Ex1 bus break error.	0 (0~65535)	STOP
E04.04 (0x7404)	Ex1uart Heartbeat Interval	V/F SVC FVC PMV/F PMSVC PMFVC Set the interval for Ex1uart heartbeat.	100 (0~65535)	STOP
E04.06 (0x7406)	Ex1uart Break Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the limit for triggering Ex1uart break error.	0 (0~65535)	STOP
E04.07 (0x7407)	EEPROM Data Write	V/F SVC FVC PMV/F PMSVC PMFVC 0: ON 1: OFF	0 (0~1)	STOP
E04.08 (0x7408)	Ex1 Diagnostic Info Upload (Bus)	V/F SVC FVC PMV/F PMSVC PMFVC 0: Big endian mode 1: Little endian mode	0 (0~1)	STOP
E04.09 (0x7409)	Ex1 Data Endian Conversion	V/F SVC FVC PMV/F PMSVC PMFVC 0: Big endian mode 1: Little endian mode	0 (0~1)	STOP
E04.20 (0x7414)	Ex1 Data Output Address 1 (U04.00 Status Word)	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 1 for Ex1 process data output.	41984 (41984~41984)	STOP
E04.21 (0x7415)	Ex1 Data Output Address 2 (U03.05 Output Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 2 for Ex1 process data output.	41773 (41773~41773)	STOP
E04.22 (0x7416)	Ex1 Data Output Address 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 3 for Ex1 process data output.	0 (0~65535)	STOP
E04.23 (0x7417)	Ex1 Data Output Address 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 4 for Ex1 process data output.	0 (0~65535)	STOP
E04.24 (0x7418)	Ex1 Data Output Address 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 5 for Ex1 process data output.	0 (0~65535)	STOP
E04.25 (0x7419)	Ex1 Data Output Address 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 6 for Ex1 process data output.	0 (0~65535)	STOP
E04.26	Ex1 Data	V/F SVC FVC PMV/F PMSVC PMFVC	0	STOP

(0x741A)	Output Address 7	Set the address 7 for Ex1 process data output.	(0~65535)	
E04.27 (0x741B)	Ex1 Data Output Address 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 8 for Ex1 process data output.	0 (0~65535)	STOP
E04.28 (0x741C)	Ex1 Data Output Address 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 9 for Ex1 process data output.	0 (0~65535)	STOP
E04.29 (0x741D)	Ex1 Data Output Address 10	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 10 for Ex1 process data output.	0 (0~65535)	STOP
E04.30 (0x741E)	Ex1 Data Output Address 11	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 11 for Ex1 process data output.	0 (0~65535)	STOP
E04.31 (0x741F)	Ex1 Data Output Address 12	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 12 for Ex1 process data output.	0 (0~65535)	STOP
E04.32 (0x7420)	Ex1 Data Output Address 13	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 13 for Ex1 process data output.	0 (0~65535)	STOP
E04.33 (0x7421)	Ex1 Data Output Address 14	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 14 for Ex1 process data output.	0 (0~65535)	STOP
E04.34 (0x7422)	Ex1 Data Output Address 15	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 15 for Ex1 process data output.	0 (0~65535)	STOP
E04.35 (0x7423)	Ex1 Data Output Address 16	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 16 for Ex1 process data output.	0 (0~65535)	STOP
E04.36 (0x7424)	Ex1 Data Output 1 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 1.	0 (0~65535)	STOP
E04.37 (0x7425)	Ex1 Data Output 2 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 2.	0 (0~65535)	STOP
E04.38 (0x7426)	Ex1 Data Output 3 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 3.	0 (0~65535)	STOP
E04.39 (0x7427)	Ex1 Data Output 4 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 4.	0 (0~65535)	STOP
E04.40 (0x7428)	Ex1 Data Output 5 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 5.	0 (0~65535)	STOP
E04.41 (0x7429)	Ex1 Data Output 6 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 6.	0 (0~65535)	STOP
E04.42 (0x742A)	Ex1 Data Output 7 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 7.	0 (0~65535)	STOP
E04.43 (0x742B)	Ex1 Data Output 8 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 8.	0 (0~65535)	STOP
E04.44 (0x742C)	Ex1 Data Output 9 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 9.	0 (0~65535)	STOP
E04.45 (0x742D)	Ex1 Data Output 10	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 10.	0 (0~65535)	STOP

	Base Address			
E04.46 (0x742E)	Ex1 Data Output 11 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 11.	0 (0~65535)	STOP
E04.47 (0x742F)	Ex1 Data Output 12 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 12.	0 (0~65535)	STOP
E04.48 (0x7430)	Ex1 Data Output 13 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 13.	0 (0~65535)	STOP
E04.49 (0x7431)	Ex1 Data Output 14 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 14.	0 (0~65535)	STOP
E04.50 (0x7432)	Ex1 Data Output 15 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 15.	0 (0~65535)	STOP
E04.51 (0x7433)	Ex1 Data Output 16 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data output 16.	0 (0~65535)	STOP
E04.52 (0x7434)	Ex1 Data Input 1 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 1.	0 (0~65535)	STOP
E04.53 (0x7435)	Ex1 Data Input 2 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 2.	0 (0~65535)	STOP
E04.54 (0x7436)	Ex1 Data Input 3 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 3.	0 (0~65535)	STOP
E04.55 (0x7437)	Ex1 Data Input 4 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 4.	0 (0~65535)	STOP
E04.56 (0x7438)	Ex1 Data Input 5 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 5.	0 (0~65535)	STOP
E04.57 (0x7439)	Ex1 Data Input 6 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 6.	0 (0~65535)	STOP
E04.58 (0x743A)	Ex1 Data Input 7 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 7.	0 (0~65535)	STOP
E04.59 (0x743B)	Ex1 Data Input 8 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 8.	0 (0~65535)	STOP
E04.60 (0x743C)	Ex1 Data Input 9 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 9.	0 (0~65535)	STOP
E04.61 (0x743D)	Ex1 Data Input 10 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 10.	0 (0~65535)	STOP
E04.62 (0x743E)	Ex1 Data Input 11 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 11.	0 (0~65535)	STOP
E04.63 (0x743F)	Ex1 Data Input 12 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 12.	0 (0~65535)	STOP
E04.64 (0x7440)	Ex1 Data Input 13 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 13.	0 (0~65535)	STOP

E04.65 (0x7441)	Ex1 Data Input 14 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 14.	0 (0~65535)	STOP
E04.66 (0x7442)	Ex1 Data Input 15 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 15.	0 (0~65535)	STOP
E04.67 (0x7443)	Ex1 Data Input 16 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex1 process data input 16.	0 (0~65535)	STOP

4.37 E05: Extension 2 Common Parameters

Code (Address)	Name	Content	Default (Range)	Property
E05.00 (0x7500)	Ex2 Communicati on Baud Rate	V/F SVC FVC PMV/F PMSVC PMFVC 8: 1Mbps 9: 2Mbps 10: 4Mbps	8 (8~10)	RUN
E05.01 (0x7501)	Ex2 Break Delay	V/F SVC FVC PMV/F PMSVC PMFVC Set the delay time for Ex2 bus break detection.	0 (0~65535)	RUN
E05.02 (0x7502)	Ex2 Break Auto Reset	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	0 (0~1)	RUN
E05.03 (0x7503)	Set the limit for triggering Ex2 bus break error.	V/F SVC FVC PMV/F PMSVC PMFVC Set the limit for triggering Ex2 bus break error.	0 (0~65535)	RUN
E05.04 (0x7504)	Ex2uart Heartbeat Interval	V/F SVC FVC PMV/F PMSVC PMFVC Set the interval for Ex2uart heartbeat.	100 (0~65535)	RUN
E05.06 (0x7506)	Ex2uart Break Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the limit for triggering Ex2uart break error.	0 (0~65535)	RUN
E05.07 (0x7507)	EEPROM Data Write	V/F SVC FVC PMV/F PMSVC PMFVC 0: ON 1: OFF	0 (0~1)	RUN
E05.08 (0x7508)	Ex2 Diagnostic Info Upload (Bus)	V/F SVC FVC PMV/F PMSVC PMFVC 0: Big endian mode 1: Little endian mode	0 (0~1)	RUN
E05.09 (0x7509)	Ex2 Data Endian Conversion	V/F SVC FVC PMV/F PMSVC PMFVC 0: Big endian mode 1: Little endian mode	0 (0~1)	RUN
E05.20 (0x7514)	Ex2 Data Output Address 1 (U04.00 Status Word)	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 1 for Ex2 process data output.	41984 (41984~41984)	RUN
E05.21 (0x7515)	Ex2 Data Output Address 2 (U03.05 Output Frequency)	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 2 for Ex2 process data output.	41773 (41773~41773)	RUN
E05.22 (0x7516)	Ex2 Data Output Address 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 3 for Ex2 process data output.	0 (0~65535)	RUN
E05.23 (0x7517)	Ex2 Data Output Address 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 4 for Ex2 process data output.	0 (0~65535)	RUN

E05.24 (0x7518)	Ex2 Data Output Address 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 5 for Ex2 process data output.	0 (0~65535)	RUN
E05.25 (0x7519)	Ex2 Data Output Address 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 6 for Ex2 process data output.	0 (0~65535)	RUN
E05.26 (0x751A)	Ex2 Data Output Address 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 7 for Ex2 process data output.	0 (0~65535)	RUN
E05.27 (0x751B)	Ex2 Data Output Address 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 8 for Ex2 process data output.	0 (0~65535)	RUN
E05.28 (0x751C)	Ex2 Data Output Address 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 9 for Ex2 process data output.	0 (0~65535)	RUN
E05.29 (0x751D)	Ex2 Data Output Address 10	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 10 for Ex2 process data output.	0 (0~65535)	RUN
E05.30 (0x751E)	Ex2 Data Output Address 11	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 11 for Ex2 process data output.	0 (0~65535)	RUN
E05.31 (0x751F)	Ex2 Data Output Address 12	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 12 for Ex2 process data output.	0 (0~65535)	RUN
E05.32 (0x7520)	Ex2 Data Output Address 13	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 13 for Ex2 process data output.	0 (0~65535)	RUN
E05.33 (0x7521)	Ex2 Data Output Address 14	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 14 for Ex2 process data output.	0 (0~65535)	RUN
E05.34 (0x7522)	Ex2 Data Output Address 15	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 15 for Ex2 process data output.	0 (0~65535)	RUN
E05.35 (0x7523)	Ex2 Data Output Address 16	V/F SVC FVC PMV/F PMSVC PMFVC Set the address 16 for Ex2 process data output.	0 (0~65535)	RUN
E05.36 (0x7524)	Ex2 Data Output 1 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 1.	0 (0~65535)	STOP
E05.37 (0x7525)	Ex2 Data Output 2 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 2.	0 (0~65535)	STOP
E05.38 (0x7526)	Ex2 Data Output 3 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 3.	0 (0~65535)	STOP
E05.39 (0x7527)	Ex2 Data Output 4 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 4.	0 (0~65535)	STOP
E05.40 (0x7528)	Ex2 Data Output 5 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 5.	0 (0~65535)	STOP
E05.41 (0x7529)	Ex2 Data Output 6 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 6.	0 (0~65535)	STOP
E05.42 (0x752A)	Ex2 Data Output 7 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 7.	0 (0~65535)	STOP
E05.43	Ex2 Data	V/F SVC FVC PMV/F PMSVC PMFVC	0	STOP

(0x752B)	Output 8 Base Address	Set the base address for Ex2 process data output 8.	(0~65535)	
E05.44 (0x752C)	Ex2 Data Output 9 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 9.	0 (0~65535)	STOP
E05.45 (0x752D)	Ex2 Data Output 10 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 10.	0 (0~65535)	STOP
E05.46 (0x752E)	Ex2 Data Output 11 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 11.	0 (0~65535)	STOP
E05.47 (0x752F)	Ex2 Data Output 12 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 12.	0 (0~65535)	STOP
E05.48 (0x7530)	Ex2 Data Output 13 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 13.	0 (0~65535)	STOP
E05.49 (0x7531)	Ex2 Data Output 14 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 14.	0 (0~65535)	STOP
E05.50 (0x7532)	Ex2 Data Output 15 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 15.	0 (0~65535)	STOP
E05.51 (0x7533)	Ex2 Data Output 16 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	0 (0~65535)	STOP
E05.52 (0x7534)	Ex2 Data Input 1 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 1.	0 (0~65535)	STOP
E05.53 (0x7535)	Ex2 Data Input 2 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 2.	0 (0~65535)	STOP
E05.54 (0x7536)	Ex2 Data Input 3 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 3.	0 (0~65535)	STOP
E05.55 (0x7537)	Ex2 Data Input 4 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 4.	0 (0~65535)	STOP
E05.56 (0x7538)	Ex2 Data Input 5 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 5.	0 (0~65535)	STOP
E05.57 (0x7539)	Ex2 Data Input 6 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 6.	0 (0~65535)	STOP
E05.58 (0x753A)	Ex2 Data Input 7 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 7.	0 (0~65535)	STOP
E05.59 (0x753B)	Ex2 Data Input 8 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 8.	0 (0~65535)	STOP
E05.60 (0x753C)	Ex2 Data Input 9 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 9.	0 (0~65535)	STOP
E05.61 (0x753D)	Ex2 Data Input 10 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 10.	0 (0~65535)	STOP
E05.62 (0x753E)	Ex2 Data Input 11 Base	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 11.	0 (0~65535)	STOP

	Address			
E05.63 (0x753F)	Ex2 Data Input 12 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 12.	0 (0~65535)	STOP
E05.64 (0x7540)	Ex2 Data Input 13 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 13.	0 (0~65535)	STOP
E05.65 (0x7541)	Ex2 Data Input 14 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 14.	0 (0~65535)	STOP
E05.66 (0x7542)	Ex2 Data Input 15 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 15.	0 (0~65535)	STOP
E05.67 (0x7543)	Ex2 Data Input 16 Base Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data input 16.	0 (0~65535)	STOP

4.38 E06: CAN/DP Parameters

Code (Address)	Name	Content	Default (Range)	Property
E06.00 (0x7600)	DP Node Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the DP node address.	1 (1~247)	STOP
E06.10 (0x760A)	CAN Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the CAN mode.	0 (0~4)	STOP
E06.11 (0x760B)	CAN Node Address	V/F SVC FVC PMV/F PMSVC PMFVC Set the CAN node address.	1 (1~127)	STOP
E06.12 (0x760C)	Communicati on Baud Rate	V/F SVC FVC PMV/F PMSVC PMFVC Set the communication baud rate.	0 (0~6)	STOP
E06.13 (0x760D)	Auto Power-on Operation	V/F SVC FVC PMV/F PMSVC PMFVC Set the auto operation at power-on.	0 (0~1)	STOP
E06.14 (0x760E)	CANopen Communicati on Timeout	V/F SVC FVC PMV/F PMSVC PMFVC Define CANopen communication timeout.	0 (0~65535)	STOP
E06.15 (0x760F)	CANopen Configuratio n	V/F SVC FVC PMV/F PMSVC PMFVC Set the CANopen configuration mode.	0 (1~65535)	STOP
E06.30 (0x761E)	RPDO1 CAN ID	V/F SVC FVC PMV/F PMSVC PMFVC Set via subnet mask d.	512 (0~1407)	STOP
E06.31 (0x761F)	RPDO1 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set via Gateway a.	225 (0~255)	STOP
E06.32 (0x7620)	RPDO1 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Set via Gateway b.	0 (0~4)	STOP
E06.33 (0x7621)	RPDO1 Receive Interval	V/F SVC FVC PMV/F PMSVC PMFVC Set via Gateway c.	50 (1~65535)	STOP
E06.34 (0x7622)	RPDO2 CAN ID	V/F SVC FVC PMV/F PMSVC PMFVC Set via Gateway d.	768 (384~1407)	STOP
E06.35 (0x7623)	RPDO2 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set via MAC address a-b.	255 (0~65535)	STOP
E06.36 (0x7624)	RPDO2 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Set via MAC address c-d.	0 (0~255)	STOP
E06.37 (0x7625)	RPDO2 Receive Interval (ms)	V/F SVC FVC PMV/F PMSVC PMFVC Set via MAC address e-f.	50 (1~65535)	STOP
E06.38	RPDO3	V/F SVC FVC PMV/F PMSVC PMFVC	1024	STOP

(0x7626)	CAN_ID	Set via MAC address e-f.	(384~1407)	
E06.39 (0x7627)	RPDO3 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Define the client 2 access timeout.	255 (0~255)	STOP
E06.40 (0x7628)	RPDO3 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Define the client 3 access timeout.	0 (0~4)	STOP
E06.41 (0x7629)	RPDO3 Receive Interval (ms)	V/F SVC FVC PMV/F PMSVC PMFVC Define the client 4 access timeout.	50 (1~65535)	STOP
E06.42 (0x762A)	RPDO4 CAN_ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 7.	1280 (384~1407)	STOP
E06.43 (0x762B)	RPDO4 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 8.	255 (0~255)	STOP
E06.44 (0x762C)	RPDO4 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 9.	0 (0~4)	STOP
E06.45 (0x762D)	RPDO4 Receive Interval (ms)	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 10.	50 (1~65535)	STOP
E06.46 (0x762E)	TPDO1 CAN_ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 11.	384 (384~1407)	STOP
E06.47 (0x762F)	TPDO1 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 12.	255 (0~255)	STOP
E06.48 (0x7630)	TPDO1 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 13.	0 (0~4)	STOP
E06.49 (0x7631)	TPDO1 Receive Interval (ms)	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 14.	50 (1~65535)	STOP
E06.50 (0x7632)	TPDO2 CAN_ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 15.	640 (384~1407)	STOP
E06.51 (0x7633)	TPDO2 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	255 (0~255)	STOP
E06.52 (0x7634)	TPDO2 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	0 (0~4)	STOP
E06.53 (0x7635)	TPDO2 Receive Interval (ms)	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	50 (1~65535)	STOP
E06.54 (0x7636)	TPDO3 CAN_ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	896 (384~1407)	STOP
E06.55 (0x7637)	TPDO3 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	255 (0~255)	STOP
E06.56 (0x7638)	TPDO3 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	0 (0~4)	STOP
E06.57 (0x7639)	TPDO3 Receive Interval (ms)	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	50 (1~65535)	STOP
E06.58 (0x763A)	TPDO4 CAN_ID	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	1152 (384~1407)	STOP
E06.59 (0x763B)	TPDO4 Mode	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	255 (0~255)	STOP
E06.60 (0x763C)	TPDO4 Mapping No.	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	0 (0~4)	STOP
E06.61 (0x763D)	TPDO4 Receive Interval (ms)	V/F SVC FVC PMV/F PMSVC PMFVC Set the base address for Ex2 process data output 16.	50 (1~65535)	STOP

4.39 E07: Ethecat Extension

Code	Name	Content	Default	Property
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(Address)			(Range)	
E07.00 (0x7700)	Module Online Status	V/F SVC FVC PMV/F PMSVC PMFVC Set the module online status.	0 (0~65535)	RUN
E07.01 (0x7701)	Slave Station Name	V/F SVC FVC PMV/F PMSVC PMFVC Set the EtherCAT slave station name.	0 (0~65535)	RUN
E07.02 (0x7702)	Slave Station Alias	V/F SVC FVC PMV/F PMSVC PMFVC Set the EtherCAT slave station alias.	0 (0~65535)	RUN
E07.05 (0x7705)	Station Alias	V/F SVC FVC PMV/F PMSVC PMFVC Enable the station alias configuration.	0 (0~65535)	RUN
E07.08 (0x7708)	EtherCAT Sync Loss Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the maximum allowed EtherCAT sync losses.	0 (0~65535)	RUN
E07.09 (0x7709)	Port Receive Error Count	V/F SVC FVC PMV/F PMSVC PMFVC Record the port receive error count.	0 (0~65535)	RUN
E07.10 (0x770A)	Port Invalid Frame Count	V/F SVC FVC PMV/F PMSVC PMFVC Record the port invalid frame count.	0 (0~65535)	RUN
E07.11 (0x770B)	Port Forwarding Error Limit	V/F SVC FVC PMV/F PMSVC PMFVC Set the maximum allowed port forwarding errors.	0 (0~65535)	RUN
E07.12 (0x770C)	PDI&PU Error Count	V/F SVC FVC PMV/F PMSVC PMFVC Count errors within the PDI&processing unit.	0 (0~65535)	RUN
E07.13 (0x770D)	Port Link Loss Count	V/F SVC FVC PMV/F PMSVC PMFVC Count the port link loss number.	0 (0~65535)	RUN
E07.14 (0x770E)	Sync Signal Loss Count	V/F SVC FVC PMV/F PMSVC PMFVC Count the sync signal loss number.	0 (0~65535)	RUN
E07.15 (0x770F)	Application Level Error Code	V/F SVC FVC PMV/F PMSVC PMFVC Set the application level error code.	0 (0~65535)	RUN
E07.16 (0x7710)	Status Pole & Port Link Status	V/F SVC FVC PMV/F PMSVC PMFVC Displays the status of the status pole and port link.	0 (0~65535)	RUN
E07.30 (0x771E)	Subnet Mask d	V/F SVC FVC PMV/F PMSVC PMFVC Set the subnet mask d.	0 (0~65535)	RUN
E07.31 (0x771F)	Gateway a	V/F SVC FVC PMV/F PMSVC PMFVC Set the Gateway a.	0 (0~65535)	RUN
E07.32 (0x7720)	Gateway b	V/F SVC FVC PMV/F PMSVC PMFVC Set the Gateway b.	0 (0~65535)	RUN
E07.33 (0x7721)	Gateway c	V/F SVC FVC PMV/F PMSVC PMFVC Set the Gateway c.	0 (0~65535)	RUN
E07.34 (0x7722)	Gateway d	V/F SVC FVC PMV/F PMSVC PMFVC Set the Gateway d.	0 (0~65535)	RUN
E07.35 (0x7723)	MAC Address a-b	V/F SVC FVC PMV/F PMSVC PMFVC Set the MAC address a-b.	0 (0~65535)	RUN
E07.36 (0x7724)	MAC Address c-d	V/F SVC FVC PMV/F PMSVC PMFVC Set the MAC address c-d.	0 (0~65535)	RUN
E07.37 (0x7725)	MAC Address e-f	V/F SVC FVC PMV/F PMSVC PMFVC Set the MAC address e-f.	0 (0~65535)	RUN
E07.38 (0x7726)	MAC Address e-f	V/F SVC FVC PMV/F PMSVC PMFVC Set the MAC address e-f.	0 (0~65535)	RUN
E07.39 (0x7727)	Client 2 Access Timeout	V/F SVC FVC PMV/F PMSVC PMFVC Define the client 2 access timeout.	0 (0~65535)	RUN
E07.40 (0x7728)	Client 3 Access Timeout	V/F SVC FVC PMV/F PMSVC PMFVC Define the client 3 access timeout.	0 (0~65535)	RUN
E07.41 (0x7729)	Client 4 Access	V/F SVC FVC PMV/F PMSVC PMFVC Define the client 4 access timeout.	0 (0~65535)	RUN

	Timeout			
E07.60 (0x773C)	DHCP	Enable the DHCP.	0 (0~65535)	RUN
E07.61 (0x773D)	IP Address a	V/F SVC FVC PMV/F PMSVC PMFVC Set the IP address a.	0 (0~65535)	RUN
E07.62 (0x773E)	IP Address b	V/F SVC FVC PMV/F PMSVC PMFVC Set the IP address b.	0 (0~65535)	RUN
E07.63 (0x773F)	IP Address c	V/F SVC FVC PMV/F PMSVC PMFVC Set the IP address c.	0 (0~65535)	RUN
E07.64 (0x7740)	IP Address d	V/F SVC FVC PMV/F PMSVC PMFVC Set the IP address d.	0 (0~65535)	RUN
E07.65 (0x7741)	Subnet Mask a	V/F SVC FVC PMV/F PMSVC PMFVC Set the subnet mask a.	0 (0~65535)	RUN
E07.66 (0x7742)	Subnet Mask b	V/F SVC FVC PMV/F PMSVC PMFVC Set the subnet mask b.	0 (0~65535)	RUN
E07.67 (0x7743)	Subnet Mask c	V/F SVC FVC PMV/F PMSVC PMFVC Set the subnet mask c.	0 (0~65535)	RUN
E07.68 (0x7744)	Subnet Mask d	V/F SVC FVC PMV/F PMSVC PMFVC Set the subnet mask d.	0 (0~65535)	RUN
E07.69 (0x7745)	Gateway a	V/F SVC FVC PMV/F PMSVC PMFVC Set the gateway a.	0 (0~65535)	RUN
E07.70 (0x7746)	Gateway b	V/F SVC FVC PMV/F PMSVC PMFVC Set the gateway b.	0 (0~65535)	RUN
E07.71 (0x7747)	Gateway c	V/F SVC FVC PMV/F PMSVC PMFVC Set the gateway c.	0 (0~65535)	RUN
E07.72 (0x7748)	Gateway d	V/F SVC FVC PMV/F PMSVC PMFVC Set the gateway d.	0 (0~65535)	RUN
E07.73 (0x7749)	MAC Address a-b	V/F SVC FVC PMV/F PMSVC PMFVC Set the MAC address a-b.	0 (0~65535)	RUN
E07.74 (0x774A)	MAC Address c-d	V/F SVC FVC PMV/F PMSVC PMFVC Set the MAC address c-d.	0 (0~65535)	RUN
E07.75 (0x774B)	MAC Address e-f	V/F SVC FVC PMV/F PMSVC PMFVC Set the MAC address e-f.	0 (0~65535)	RUN

4.40 E08: PLC Extension Parameter

Code (Address)	Name	Content	Default (Range)	Property
E08.00 (0x7800)	Reserved	V/F SVC FVC PMV/F PMSVC PMFVC Reserved	0 (0~65535)	RUN

4.41 E10: Black Box

Code (Address)	Name	Content	Default (Range)	Property
E10.00 (0x7A00)	Black Box Enable	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF 1: ON	1 (0~1)	RUN
E10.01 (0x7A01)	Black Box File No.	V/F SVC FVC PMV/F PMSVC PMFVC Black Box File No.	1 (0~65535)	RUN
E10.02 (0x7A02)	Black Box Status	V/F SVC FVC PMV/F PMSVC PMFVC 0: Initialization not completed 1: Initialization in progress 2: Initialization completed	0 (0~2)	RUN
E10.03 (0x7A03)	Receive Timeout	V/F SVC FVC PMV/F PMSVC PMFVC 0: OFF	0 (0~1)	RUN

	Detection	1: ON		
E10.04 (0x7A04)	Receive Timeout Judgment	V/F SVC FVC PMV/F PMSVC PMFVC Set the receive timeout judgment time.	10.00s (0.00s~100.00s)	RUN
E10.06 (0x7A06)	ADC Data Custom Channel 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the ADC data custom channel 1.	0x0000 (0x0000~0x4F99)	RUN
E10.07 (0x7A07)	ADC Data Custom Channel 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the ADC data custom channel 2.	0x0000 (0x0001~0x4F99)	RUN
E10.08 (0x7A08)	ADC Data Custom Channel 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the ADC data custom channel 3.	0x0000 (0x0002~0x4F99)	RUN
E10.09 (0x7A09)	ADC Data Custom Channel 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the ADC data custom channel 4.	0x0000 (0x0003~0x4F99)	RUN
E10.10 (0x7A0A)	ADC Data Custom Channel 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the ADC data custom channel 5.	0x0000 (0x0004~0x4F99)	RUN
E10.11 (0x7A0B)	2ms Data Custom Channel 1	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 1.	0x0000 (0x0000~0x4F99)	RUN
E10.12 (0x7A0C)	2ms Data Custom Channel 2	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 2.	0x0000 (0x0000~0x4F99)	RUN
E10.13 (0x7A0D)	2ms Data Custom Channel 3	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 3.	0x0000 (0x0000~0x4F99)	RUN
E10.14 (0x7A0E)	2ms Data Custom Channel 4	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 4.	0x0000 (0x0000~0x4F99)	RUN
E10.15 (0x7A0F)	2ms Data Custom Channel 5	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 5.	0x0000 (0x0000~0x4F99)	RUN
E10.16 (0x7A10)	2ms Data Custom Channel 6	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 6.	0x0000 (0x0000~0x4F99)	RUN
E10.17 (0x7A11)	2ms Data Custom Channel 7	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 7.	0x0000 (0x0000~0x4F99)	RUN
E10.18 (0x7A12)	2ms Data Custom Channel 8	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 8.	0x0000 (0x0000~0x4F99)	RUN
E10.19 (0x7A13)	2ms Data Custom Channel 9	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 9.	0x0000 (0x0000~0x4F99)	RUN
E10.20 (0x7A14)	2ms Data Custom Channel 10	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 10.	0x0000 (0x0000~0x4F99)	RUN
E10.21 (0x7A15)	2ms Data Custom Channel 11	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 11.	0x0000 (0x0000~0x4F99)	RUN
E10.22 (0x7A16)	2ms Data Custom Channel 12	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 12.	0x0000 (0x0000~0x4F99)	RUN
E10.23 (0x7A17)	2ms Data Custom Channel 13	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 13.	0x0000 (0x0000~0x4F99)	RUN

E10.24 (0x7A18)	2ms Data Custom Channel 14	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 14.	0x0000 (0x0000~0x4F99)	RUN
E10.25 (0x7A19)	2ms Data Custom Channel 15	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 15.	0x0000 (0x0000~0x4F99)	RUN
E10.26 (0x7A1A)	2ms Data Custom Channel 16	V/F SVC FVC PMV/F PMSVC PMFVC Set the 2ms data custom channel 16.	0x0000 (0x0000~0x4F99)	RUN

4.42 L00: Free Function Block

L00.0x: Module 1

Code (Address)	Name	Content	Default (Range)	Property
L00.00 (0x8000)	Module 1 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.01 (0x8001)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.02 (0x8002)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.03 (0x8003)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.04 (0x8004)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.05 (0x8005)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.06 (0x8006)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.07 (0x8007)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.08 (0x8008)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.09 (0x8009)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.1x: Module 2

Code (Address)	Name	Content	Default (Range)	Property
L00.10	Module 2	V/F SVC FVC PMV/F PMSVC PMFVC	0	RUN

(0x800A)	Function	Refer to the details in Free Module Function.	(0~38)	
L00.11 (0x800B)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.12 (0x800C)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.13 (0x800D)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.14 (0x800E)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.15 (0x800F)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.16 (0x8010)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.17 (0x8011)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.18 (0x8012)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.19 (0x8013)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.2x: Module 3

Code (Address)	Name	Content	Default (Range)	Property
L00.20 (0x8014)	Module 3 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.21 (0x8015)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.22 (0x8016)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.23 (0x8017)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.24 (0x8018)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.25 (0x8019)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN

L00.26 (0x801A)	Input 2 Bit(Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.27 (0x801B)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.28 (0x801C)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.29 (0x801D)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.3x: Module 4

Code (Address)	Name	Content	Default (Range)	Property
L00.30 (0x801E)	Module 4 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.31 (0x801F)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.32 (0x8020)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.33 (0x8021)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.34 (0x8022)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.35 (0x8023)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.36 (0x8024)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.37 (0x8025)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.38 (0x8026)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.39 (0x8027)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.4x: Module 5

Code (Address)	Name	Content	Default (Range)	Property
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L00.40 (0x8028)	Module 5 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.41 (0x8029)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.42 (0x802A)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.43 (0x802B)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.44 (0x802C)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.45 (0x802D)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.46 (0x802E)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.47 (0x802F)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.48 (0x8030)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.49 (0x8031)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.5x: Module 6

Code (Address)	Name	Content	Default (Range)	Property
L00.50 (0x8032)	Module 6 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.51 (0x8033)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.52 (0x8034)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.53 (0x8035)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.54 (0x8036)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.55 (0x8037)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.56 (0x8038)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.57 (0x8039)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.58 (0x803A)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.59 (0x803B)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.6x: Module 7

Code (Address)	Name	Content	Default (Range)	Property
L00.60 (0x803C)	Module 7 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.61 (0x803D)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.62 (0x803E)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.63 (0x803F)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.64 (0x8040)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid	0 (0~3)	RUN

		1: Constant 2: Address No. 3: Bitwise operation of address parameters		
L00.65 (0x8041)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.66 (0x8042)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.67 (0x8043)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.68 (0x8044)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.69 (0x8045)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.7x: Module 8

Code (Address)	Name	Content	Default (Range)	Property
L00.70 (0x8046)	Module 8 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.71 (0x8047)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.72 (0x8048)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.73 (0x8049)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.74 (0x804A)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.75 (0x804B)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.76 (0x804C)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.77 (0x804D)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.78 (0x804E)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.79 (0x804F)	Input 3 Bit (Bit operation)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

	valid)			
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L00.8x: Module 9

Code (Address)	Name	Content	Default (Range)	Property
L00.80 (0x8050)	Module 9 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.81 (0x8051)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.82 (0x8052)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.83 (0x8053)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.84 (0x8054)	Input 2 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.85 (0x8055)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.86 (0x8056)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.87 (0x8057)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.88 (0x8058)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.89 (0x8059)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

L00.9x: Module 10

Code (Address)	Name	Content	Default (Range)	Property
L00.90 (0x805A)	Module 10 Function	V/F SVC FVC PMV/F PMSVC PMFVC Refer to the details in Free Module Function.	0 (0~38)	RUN
L00.91 (0x805B)	Input 1 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.92 (0x805C)	Input 1 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.93 (0x805D)	Input 1 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.94	Input 2	V/F SVC FVC PMV/F PMSVC PMFVC	0	RUN

(0x805E)	Type	0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	(0~3)	
L00.95 (0x805F)	Input 2 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.96 (0x8060)	Input 2 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN
L00.97 (0x8061)	Input 3 Type	V/F SVC FVC PMV/F PMSVC PMFVC 0: Invalid 1: Constant 2: Address No. 3: Bitwise operation of address parameters	0 (0~3)	RUN
L00.98 (0x8062)	Input 3 ID/Value	V/F SVC FVC PMV/F PMSVC PMFVC Set the constant value for input.	0 (0~65535)	RUN
L00.99 (0x8063)	Input 3 Bit (Bit operation valid)	V/F SVC FVC PMV/F PMSVC PMFVC Bitwise operations are valid for address parameter inputs.	0 (0~99)	RUN

4.43 U00: Bit Connector 1

U00.xx: Bit Connector 1 (Digital Status)

Code (Address)	Name	Min. Unit	Content
U00.00 (0xA000)	Logic 0	--	--
U00.01 (0xA001)	Logic 1	--	--
U00.02 (0xA002)	X1 Physical Status	--	X1 original status before processing
U00.03 (0xA003)	X1 Final Status	--	X1 status after delay processing
U00.04 (0xA004)	X1 Final Status Inversion	--	Inverted X1 status after delay processing
U00.05 (0xA005)	X2 Physical Status	--	X2 original status before processing
U00.06 (0xA006)	X2 Final Status	--	X2 status after delay processing
U00.07 (0xA007)	X2 Final Status Inversion	--	Inverted X2 status after delay processing
U00.08 (0xA008)	X3 Physical Status	--	X3 original status before processing
U00.09 (0xA009)	X3 Final Status	--	X3 status after delay processing
U00.10 (0xA00A)	X3 Final Status Inversion	--	Inverted X3 status after delay processing
U00.11 (0xA00B)	X4 Physical Status	--	X4 original status before processing
U00.12 (0xA00C)	X4 Final Status	--	X4 status after delay processing
U00.13 (0xA00D)	X4 Final Status Inversion	--	Inverted X4 status after delay processing
U00.14 (0xA00E)	X5 Physical Status	--	X5 original status before processing

U00.15 (0xA00F)	X5 Final Status	--	X5 status after delay processing
U00.16 (0xA010)	X5 Final Status Inversion	--	Inverted X5 status after delay processing
U00.17 (0xA011)	X6 Physical Status	--	X6 original status before processing
U00.18 (0xA012)	X6 Final Status	--	X6 status after delay processing
U00.19 (0xA013)	X6 Final Status Inversion	--	Inverted X6 status after delay processing
U00.32 (0xA020)	vX1 Original Status	--	vX1 original status before processing
U00.33 (0xA021)	vX1 Final Status	--	vX1 status after delay processing
U00.34 (0xA022)	vX1 Final Status Inversion	--	Inverted vX1 status after delay processing
U00.35 (0xA023)	vX2 Original Status	--	vX2 original status before processing
U00.36 (0xA024)	vX2 Final Status	--	vX2 status after delay processing
U00.37 (0xA025)	vX2 Final Status Inversion	--	Inverted vX2 status after delay processing
U00.38 (0xA026)	vX3 Original Status	--	vX3 original status before processing
U00.39 (0xA027)	vX3 Final Status	--	vX3 status after delay processing
U00.40 (0xA028)	vX3 Final Status Inversion	--	Inverted vX3 status after delay processing
U00.41 (0xA029)	vX4 Original Status	--	vX4 original status before processing
U00.42 (0xA02A)	vX4 Final Status	--	vX4 status after delay processing
U00.43 (0xA02B)	vX4 Final Status Inversion	--	Inverted vX4 status after delay processing
U00.44 (0xA02C)	vX5 Original Status	--	vX5 original status before processing
U00.45 (0xA02D)	vX5 Final Status	--	vX5 status after delay processing
U00.46 (0xA02E)	vX5 Final Status Inversion	--	Inverted vX5 status after delay processing
U00.47 (0xA02F)	vX6 Original Status	--	vX6 original status before processing
U00.48 (0xA030)	vX6 Final Status	--	vX6 status after delay processing
U00.49 (0xA031)	vX6 Final Status Inversion	--	Inverted vX6 status after delay processing
U00.50 (0xA032)	vX7 Original Status	--	vX7 original status before processing
U00.51 (0xA033)	vX7 Final Status	--	vX7 status after delay processing
U00.52 (0xA034)	vX7 Final Status Inversion	--	Inverted vX7 status after delay processing
U00.53 (0xA035)	vX8 Original Status	--	vX8 original status before processing
U00.54 (0xA036)	vX8 Final Status	--	vX8 status after delay processing
U00.55	vX8 Final Status Inversion	--	Inverted vX8 status after delay processing

(0xA037)			
U00.56 (0xA038)	Y1 Output Status	--	Monitor the output state of Y1
U00.57 (0xA039)	Y1 Output Status Inversion	--	Monitor the inverted output state of Y1
U00.58 (0xA03A)	Y2 Output Status	--	Monitor the output state of Y2
U00.59 (0xA03B)	Y2 Output Status Inversion	--	Monitor the inverted output state of Y2
U00.60 (0xA03C)	Y3 Output Status	--	Monitor the output state of Y3
U00.61 (0xA03D)	Y3 Output Status Inversion	--	Monitor the inverted output state of Y3
U00.62 (0xA03E)	vY1 Output Status	--	Monitor the output state of vY1
U00.63 (0xA03F)	vY1 Output Status Inversion	--	Monitor the inverted output state of vY1
U00.64 (0xA040)	vY2 Output Status	--	Monitor the output state of vY2
U00.65 (0xA041)	vY2 Output Status Inversion	--	Monitor the inverted output state of vY2
U00.66 (0xA042)	vY3 Output Status	--	Monitor the output state of vY3
U00.67 (0xA043)	vY3 Output Status Inversion	--	Monitor the inverted output state of vY3
U00.68 (0xA044)	vY4 Output Status	--	Monitor the output state of vY4
U00.69 (0xA045)	vY4 Output Status Inversion	--	Monitor the inverted output state of vY4
U00.70 (0xA046)	vY5 Output Status	--	Monitor the output state of vY5
U00.71 (0xA047)	vY5 Output Status Inversion	--	Monitor the inverted output state of vY5
U00.72 (0xA048)	vY6 Output Status	--	Monitor the output state of vY6
U00.73 (0xA049)	vY6 Output Status Inversion	--	Monitor the inverted output state of vY6
U00.74 (0xA04A)	vY7 Output Status	--	Monitor the output state of vY7
U00.75 (0xA04B)	vY7 Output Status Inversion	--	Monitor the inverted output state of vY7
U00.76 (0xA04C)	vY8 Output Status	--	Monitor the output state of vY8
U00.77 (0xA04D)	vY8 Output Status Inversion	--	Monitor the inverted output state of vY8
U00.82 (0xA052)	XY1 I/O Indicator	--	Monitor the XY1 input/output indicator
U00.83 (0xA053)	XY2 I/O Indicator	--	Monitor the XY2 input/output indicator
U00.84 (0xA054)	XY3 I/O Indicator	--	Monitor the XY3 input/output indicator
U00.85 (0xA055)	XY1 Original Status	--	Monitor the XY1 original status
U00.86 (0xA056)	XY1 Final/Output Status	--	Monitor the XY1 final/output status
U00.87 (0xA057)	XY1 Final/Output Status Inversion	--	Monitor the inverted XY1 final/output status

U00.88 (0xA058)	XY2 Original Status	--	Monitor the XY2 original status
U00.89 (0xA059)	XY2 Final/Output Status	--	Monitor the XY2 final/output status
U00.90 (0xA05A)	XY2 Final/Output Status Inversion	--	Monitor the inverted XY2 final/output status
U00.91 (0xA05B)	XY3 Original Status	--	Monitor the XY3 original status
U00.92 (0xA05C)	XY3 Final/Output Status	--	Monitor the XY3 final/output status
U00.93 (0xA05D)	XY3 Final/Output Status Inversion	--	Monitor the inverted XY3 final/output status

U01.xx: Bit Connector 2 (Function Status Indicator)

Code (Address)	Name	Min. Unit	Content
U01.00 (0xA100)	No Output	1	--
U01.01 (0xA101)	Drive in Operation	1	--
U01.02 (0xA102)	Drive in FWD Operation	1	--
U01.03 (0xA103)	Drive in REV Operation	1	--
U01.04 (0xA104)	Error Tripping Alarm 1 (Report during auto reset)	1	--
U01.05 (0xA105)	Error Tripping Alarm 2 (No report during auto reset)	1	--
U01.06 (0xA106)	External Error Stop	1	--
U01.07 (0xA107)	Drive Low Voltage	1	--
U01.08 (0xA108)	AC Drive Ready	1	--
U01.09 (0xA109)	Output Frequency Detection 1 (FDT1)	1	--
U01.10 (0xA10A)	Output Frequency Detection 2 (FDT2)	1	--
U01.11 (0xA10B)	Target Frequency Arrival	1	--
U01.12 (0xA10C)	Zero-frequency Operation	1	--
U01.13 (0xA10D)	Upper Limit Frequency Arrival	1	--
U01.14 (0xA10E)	Lower Limit Frequency Arrival	1	--
U01.15 (0xA10F)	Program Cycle Completion	1	--
U01.16 (0xA110)	Program Stage Completion	1	--
U01.17 (0xA111)	PID Feedback above Upper Limit	1	--
U01.18 (0xA112)	PID Feedback below Lower Limit	1	--
U01.19 (0xA113)	PID Feedback Sensor Break	1	--

U01.20 (0xA114)	Meter Length Arrival	1	--
U01.21 (0xA115)	Timing Arrival	1	--
U01.22 (0xA116)	Counter Maximum Arrival	1	--
U01.23 (0xA117)	Counter Setting Arrival	1	--
U01.24 (0xA118)	Dynamic Braking	1	--
U01.25 (0xA119)	PG Feedback Break	1	--
U01.26 (0xA11A)	Emergency Stopping	1	--
U01.27 (0xA11B)	Overload Output (Report error and alarm)	1	--
U01.28 (0xA11C)	Underload Output (Report error and alarm)	1	--
U01.29 (0xA11D)	Drive Alarming	1	--
U01.30 (0xA11E)	0x3018 Control Output	1	--
U01.31 (0xA11F)	Drive Overheat	1	--
U01.32 (0xA120)	Motor Overheat Alarm	1	--
U01.33 (0xA121)	Drive Overloading	1	--
U01.34 (0xA122)	Motor Overloading	1	--
U01.37 (0xA125)	Comparator 1	1	--
U01.38 (0xA126)	Comparator 2	1	--
U01.39 (0xA127)	Comparator 3	1	--
U01.40 (0xA128)	Comparator 4	1	--
U01.41 (0xA129)	Motor 1 Enable	1	--
U01.42 (0xA12A)	Motor 2 Enable	1	--
U01.43 (0xA12B)	Motor 3 Enable	1	--
U01.44 (0xA12C)	Control Parameter 1 Enable	1	--
U01.45 (0xA12D)	Control Parameter 2 Enable	1	--
U01.46 (0xA12E)	Control Parameter 3 Enable	1	--
U01.47 (0xA12F)	Accelerating	1	--
U01.48 (0xA130)	Constant-frequency Operating	1	--
U01.49 (0xA131)	Decelerating	1	--
U01.50	FWD Disable	1	--

(0xA132)			
U01.51 (0xA133)	REV Disable	1	--
U01.52 (0xA134)	Start DC Brake	1	--
U01.54 (0xA136)	Under Torque Control	1	--
U01.55 (0xA137)	Under Position Control	1	--
U01.56 (0xA138)	Jogging First	1	--
U01.57 (0xA139)	Undervoltage Suppressing	1	--
U01.58 (0xA13A)	Overvoltage Suppressing	1	--
U01.59 (0xA13B)	Overcurrent Suppressing	1	--
U01.60 (0xA13C)	Speed Limit (No shutdown on fault)	1	--
U01.61 (0xA13D)	Current Limit (No shutdown on fault)	1	--
U01.62 (0xA13E)	Power Limit (No shutdown on fault)	1	--

U03.xx: Word Connector 1 (Typical Frequency/Voltage)

Typical frequency/voltage/current values

Code (Address)	Name	Min. Unit	Content
U03.00 (0xA300)	Frequency Reference (System Frequency Fb)	1	--
U03.01 (0xA301)	Max. Frequency	0.01Hz	--
U03.02 (0xA302)	Rated Frequency	0.1%	--
U03.03 (0xA303)	Target Frequency	0.1%	--
U03.04 (0xA304)	Shaft Frequency	0.1%	--
U03.05 (0xA305)	Output Frequency	0.1%	--
U03.06 (0xA306)	Target Speed	1rpm	--
U03.07 (0xA307)	Mechanical Speed	1rpm	--
U03.08 (0xA308)	Control Speed	1rpm	--
U03.11 (0xA30B)	Anti-oscillation Compensation Frequency	1	--
U03.12 (0xA30C)	Overvoltage/Low-voltage Suppression Compensation Frequency	1	--
U03.14 (0xA30E)	Overcurrent Suppression Compensation Frequency	1	--
U03.16 (0xA600)	Speed-Frequency Coefficient	1	--
U03.17 (0xA311)	Target Frequency During Start-Stop	1	--

U03.19 (0xA313)	Source A Output	1	--
U03.20 (0xA314)	Source B Output	1	--
U03.21 (0xA315)	Frequency Source	1	--
U03.30 (0xA31E)	Voltage Reference (Motor Rated Line Voltage Vn)	0.1V	--
U03.31 (0xA31F)	Bus Voltage Feedback, 1ms Average	0.1V	--
U03.32 (0xA320)	Min. Bus Voltage	0.1V	--
U03.33 (0xA321)	Busbar Overvoltage Suppression Point	0.1V	--
U03.34 (0xA322)	Busbar Undervoltage Suppression Point	0.1V	--
U03.35 (0xA323)	Dynamic Brake Voltage Point	0.1V	--
U03.37 (0xA325)	Input Voltage	0.1%	--
U03.38 (0xA326)	Bus Monitoring Voltage	0.1%	--
U03.39 (0xA327)	Bus Voltage Feedback, 1ms Average	0.1%	--
U03.40 (0xA328)	Min. Bus Voltage	0.1%	--
U03.41 (0xA329)	Busbar Overvoltage Suppression Point	0.1%	--
U03.42 (0xA32A)	Busbar Undervoltage Suppression Point	0.1%	--
U03.43 (0xA32B)	Output Voltage Range	0.1%	--
U03.44 (0xA32C)	Dynamic Brake Voltage Point	0.1%	--
U03.47 (0xA32F)	α -Axis Voltage in Stationary Coordinate System	0.1%	--
U03.48 (0xA330)	β -Axis Voltage in Stationary Coordinate System	0.1%	--
U03.49 (0xA331)	Stator Voltage d-Axis Component	0.1%	--
U03.50 (0xA332)	Stator Voltage q-Axis Component	0.1%	--
U03.51 (0xA333)	Output Voltage Filter	0.1%	--
U03.52 (0xA334)	V/F-SPLIT Output Voltage	0.1%	--
U03.53 (0xA335)	d-Axis ACR Output	0.1	--
U03.54 (0xA336)	q-Axis ACR Output	0.1	--
U03.60 (0xA33C)	Current Reference (Motor Rated Current Ib)	0.1A	--
U03.61 (0xA33D)	Output Current Monitoring	0.1%	--
U03.62	Braking Current	0.1%	--

(0xA33E)			
U03.63 (0xA33F)	Fault Current	0.1A	--
U03.64 (0xA340)	U-Phase Current Sampling	1	--
U03.65 (0xA341)	V-Phase Current Sampling	1	--
U03.66 (0xA342)	W-Phase Current Sampling	0.1	--
U03.67 (0xA343)	U-Phase Current RMS	0.1%	--
U03.68 (0xA344)	V-Phase Current RMS	0.1%	--
U03.69 (0xA345)	W-Phase Current RMS	0.1%	--
U03.70 (0xA346)	α Current	0.1%	--
U03.71 (0xA347)	β Current	0.1%	--
U03.72 (0xA348)	D-Axis Current Feedback	0.1%	--
U03.73 (0xA349)	Q-Axis Current Feedback	0.1%	--
U03.74 (0xA34A)	Output Current Upper Limit	0.1%	--
U03.75 (0xA34B)	Output Current	1	--
U03.76 (0xA34C)	CBC Limit Current	1	--
U03.77 (0xA34D)	ASR Output Current	1	--
U03.78 (0xA34E)	Excitation Current	1	--
U03.79 (0xA34F)	Excitation Current Feedback	1	--

U04.xx: Word Connector 2 (Internal Parameter Word 1)

Code (Address)	Name	Min. Unit	Content
U04.00 (0xA400)	Drive Status Word	--	--
U04.01 (0xA401)	Current ACC Time	1	The current given acceleration time.
U04.02 (0xA402)	Current DEC Time	1	The current given deceleration time.
U04.05 (0xA405)	X1~X4 Terminal Info	--	The status of the terminal X is indicated by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C00.14 displays $\begin{array}{c} 11 \\ \\ \\ \\ \\ \\ \\ \end{array}$.
U04.06 (0xA406)	X5~X8 Terminal Info	--	The status of the terminal X is indicated by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C00.14 displays $\begin{array}{c} 11 \\ \\ \\ \\ \\ \\ \\ \end{array}$.
U04.07 (0xA407)	X8~X12 Terminal Info	--	--
U04.08	AI1 Value	1	Indicates the AI1 value.

(0xA408)			
U04.09 (0xA409)	AI2 Value	1	Indicates the AI2 value.
U04.10 (0xA40A)	AO1 Value	1	Indicates the AO1 value.
U04.11 (0xA40B)	AO2 Value	1	Indicates the AO2 value.
U04.12 (0xA40C)	Fault 1	1	Indicates the current fault subcode.
U04.13 (0xA40D)	Fault 2	1	Indicates the previous one fault subcode.
U04.14 (0xA40E)	Fault 3	1	Indicates the previous two fault subcode.

U05.xx: Word Connector 3 (Internal Parameter Word 2)

Code (Address)	Name	Min. Unit	Content
U05.00 (0xA500)	0x3000 Control Word	--	Read the data of address 0x3000
U05.01 (0xA501)	0x3001 Control Word	--	Read the data of address 0x3001
U05.02 (0xA502)	0x3002 Control Word	--	Read the data of address 0x3002
U05.03 (0xA503)	0x3003 Control Word	--	Read the data of address 0x3003
U05.04 (0xA504)	0x3004 Control Word	--	Read the data of address 0x3004
U05.05 (0xA505)	0x3005 Control Word	--	Read the data of address 0x3005
U05.06 (0xA506)	0x3006 Control Word	--	Read the data of address 0x3006
U05.07 (0xA507)	0x3007 Control Word	--	Read the data of address 0x3007
U05.08 (0xA508)	0x3008 Control Word	--	Read the data of address 0x3008
U05.09 (0xA509)	0x3009 Control Word	--	Read the data of address 0x3009
U05.10 (0xA50A)	0x300A Control Word	--	Read the data of address 0x300A
U05.11 (0xA50B)	0x300B Control Word	--	Read the data of address 0x300B
U05.12 (0xA50C)	0x300C Control Word	--	Read the data of address 0x300C
U05.13 (0xA50D)	0x300D Control Word	--	Read the data of address 0x300D
U05.14 (0xA50E)	0x300E Control Word	--	Read the data of address 0x300E
U05.15 (0xA50F)	0x300F Control Word	--	Read the data of address 0x300F
U05.16 (0xA510)	0x3010 Control Word	--	Read the data of address 0x3010
U05.17 (0xA511)	0x3011 Control Word	--	Read the data of address 0x3011
U05.18 (0xA512)	0x3012 Control Word	--	Read the data of address 0x3012
U05.19 (0xA513)	0x3013 Control Word	--	Read the data of address 0x3013

U05.20 (0xA514)	0x3014 Control Word	--	Read the data of address 0x3014
U05.21 (0xA515)	0x3015 Control Word	--	Read the data of address 0x3015
U05.22 (0xA516)	0x3016 Control Word	--	Read the data of address 0x3016
U05.23 (0xA517)	0x3017 Control Word	--	Read the data of address 0x3017
U05.24 (0xA518)	0x3018 Control Word	--	Read the data of address 0x3018
U05.25 (0xA519)	0x3019 Control Word	--	Read the data of address 0x3019
U05.26 (0xA51A)	0x301A Control Word	--	Read the data of address 0x301A
U05.27 (0xA51B)	0x301B Control Word	--	Read the data of address 0x301B
U05.28 (0xA51C)	0x301C Control Word	--	Read the data of address 0x301C
U05.29 (0xA51D)	0x301D Control Word	--	Read the data of address 0x301D
U05.30 (0xA51E)	0x301E Control Word	--	Read the data of address 0x301E
U05.31 (0xA51F)	0x301F Control Word	--	Read the data of address 0x301F
U05.32 (0xA520)	0x6000 Control Word	--	Read the data of address 0x6000
U05.33 (0xA521)	0x6001 Control Word	--	Read the data of address 0x6001
U05.34 (0xA522)	0x6002 Control Word	--	Read the data of address 0x6002
U05.35 (0xA523)	0x6003 Control Word	--	Read the data of address 0x6003
U05.36 (0xA524)	0x6004 Control Word	--	Read the data of address 0x6004
U05.37 (0xA525)	0x6005 Control Word	--	Read the data of address 0x6005
U05.38 (0xA526)	0x6006 Control Word	--	Read the data of address 0x6006
U05.39 (0xA527)	0x6007 Control Word	--	Read the data of address 0x6007
U05.40 (0xA528)	0x6008 Control Word	--	Read the data of address 0x6008
U05.41 (0xA529)	0x6009 Control Word	--	Read the data of address 0x6009
U05.42 (0xA52A)	0x600A Control Word	--	Read the data of address 0x600A
U05.43 (0xA52B)	0x600B Control Word	--	Read the data of address 0x600B
U05.44 (0xA52C)	0x600C Control Word	--	Read the data of address 0x600C
U05.45 (0xA52D)	0x600D Control Word	--	Read the data of address 0x600D
U05.46 (0xA52E)	0x600E Control Word	--	Read the data of address 0x600E
U05.47 (0xA52F)	0x600F Control Word	--	Read the data of address 0x600F
U05.48	0x3110 Control Word	--	Read the data of address 0x3110

(0xA530)			
U05.49 (0xA531)	0x3111 Control Word	--	Read the data of address 0x3111
U05.50 (0xA532)	0x3112 Control Word	--	Read the data of address 0x3112
U05.51 (0xA533)	0x3113 Control Word	--	Read the data of address 0x3113
U05.52 (0xA534)	0x3114 Control Word	--	Read the data of address 0x3114
U05.53 (0xA535)	0x3115 Control Word	--	Read the data of address 0x3115
U05.54 (0xA536)	0x3116 Control Word	--	Read the data of address 0x3116
U05.55 (0xA537)	0x3117 Control Word	--	Read the data of address 0x3117
U05.56 (0xA538)	0x3118 Control Word	--	Read the data of address 0x3118
U05.57 (0xA539)	0x3119 Control Word	--	Read the data of address 0x3119
U05.58 (0xA53A)	0x311A Control Word	--	Read the data of address 0x311A
U05.59 (0xA53B)	0x311B Control Word	--	Read the data of address 0x311B
U05.60 (0xA53C)	0x311C Control Word	--	Read the data of address 0x311C
U05.61 (0xA53D)	0x311D Control Word	--	Read the data of address 0x311D
U05.62 (0xA53E)	0x311E Control Word	--	Read the data of address 0x311E
U05.63 (0xA53F)	0x311F Control Word	--	Read the data of address 0x311F
U05.64 (0xA540)	0x3200 Control Word	--	Read the data of address 0x3200
U05.65 (0xA541)	0x3201 Control Word	--	Read the data of address 0x3201
U05.66 (0xA542)	0x3202 Control Word	--	Read the data of address 0x3202
U05.67 (0xA543)	0x3203 Control Word	--	Read the data of address 0x3203
U05.68 (0xA544)	0x3204 Control Word	--	Read the data of address 0x3204
U05.69 (0xA545)	0x3205 Control Word	--	Read the data of address 0x3205
U05.70 (0xA546)	0x3206 Control Word	--	Read the data of address 0x3206
U05.71 (0xA547)	0x3207 Control Word	--	Read the data of address 0x3207
U05.72 (0xA548)	0x3208 Control Word	--	Read the data of address 0x3208
U05.73 (0xA549)	0x3209 Control Word	--	Read the data of address 0x3209

U07.xx: Dual Word Connector

Code (Address)	Name	Min. Unit	Content
U07.00 (0xA700)	Module 1: Monitoring Input 1	1	Monitor the input 1 of free module 1

U07.02 (0xA702)	Module 1: Monitoring Input 2	1	Monitor the input 2 of free module 1
U07.04 (0xA704)	Module 1: Monitoring Input 3	1	Monitor the input 3 of free module 1
U07.06 (0xA706)	Module 2: Monitoring Input 1	1	Monitor the input 1 of free module 2
U07.08 (0xA708)	Module 2: Monitoring Input 2	1	Monitor the input 2 of free module 2
U07.10 (0xA70A)	Module 2: Monitoring Input 3	1	Monitor the input 3 of free module 2
U07.12 (0xA70C)	Module 3: Monitoring Input 1	1	Monitor the input 1 of free module 3
U07.14 (0xA70E)	Module 3: Monitoring Input 2	1	Monitor the input 2 of free module 3
U07.16 (0xA710)	Module 3: Monitoring Input 3	1	Monitor the input 3 of free module 3
U07.18 (0xA712)	Module 4: Monitoring Input 1	1	Monitor the input 1 of free module 4
U07.20 (0xA714)	Module 4: Monitoring Input 2	1	Monitor the input 2 of free module 4
U07.22 (0xA716)	Module 4: Monitoring Input 3	1	Monitor the input 3 of free module 4
U07.24 (0xA718)	Module 5: Monitoring Input 1	1	Monitor the input 1 of free module 5
U07.26 (0xA71A)	Module 5: Monitoring Input 2	1	Monitor the input 2 of free module 5
U07.28 (0xA71C)	Module 5: Monitoring Input 3	1	Monitor the input 3 of free module 5
U07.30 (0xA71E)	Module 6: Monitoring Input 1	1	Monitor the input 1 of free module 6
U07.32 (0xA720)	Module 6: Monitoring Input 2	1	Monitor the input 2 of free module 6
U07.34 (0xA722)	Module 6: Monitoring Input 3	1	Monitor the input 3 of free module 6
U07.36 (0xA724)	Module 7: Monitoring Input 1	1	Monitor the input 1 of free module 7
U07.38 (0xA726)	Module 7: Monitoring Input 2	1	Monitor the input 2 of free module 7
U07.40 (0xA728)	Module 7: Monitoring Input 3	1	Monitor the input 3 of free module 7
U07.42 (0xA72A)	Module 8: Monitoring Input 1	1	Monitor the input 1 of free module 8
U07.44 (0xA72C)	Module 8: Monitoring Input 2	1	Monitor the input 2 of free module 8
U07.46 (0xA72E)	Module 8: Monitoring Input 3	1	Monitor the input 3 of free module 8
U07.48 (0xA730)	Module 9: Monitoring Input 1	1	Monitor the input 1 of free module 9
U07.50 (0xA732)	Module 9: Monitoring Input 2	1	Monitor the input 2 of free module 9
U07.52 (0xA734)	Module 9: Monitoring Input 3	1	Monitor the input 3 of free module 9
U07.54 (0xA736)	Module 10: Monitoring Input 1	1	Monitor the input 1 of free module 10
U07.56 (0xA738)	Module 10: Monitoring Input 2	1	Monitor the input 2 of free module 10
U07.58	Module 10: Monitoring	1	Monitor the input 3 of free module 10

(0xA73A)	Input 3		
U07.60 (0xA73C)	Module 1: Monitoring Output	1	Monitor the output 1 of free module
U07.62 (0xA73E)	Module 2: Monitoring Output	1	Monitor the output 2 of free module
U07.64 (0xA740)	Module 3: Monitoring Output	1	Monitor the output 3 of free module
U07.66 (0xA742)	Module 4: Monitoring Output	1	Monitor the output 4 of free module
U07.68 (0xA744)	Module 5: Monitoring Output	1	Monitor the output 5 of free module
U07.70 (0xA746)	Module 6: Monitoring Output	1	Monitor the output 6 of free module
U07.72 (0xA748)	Module 7: Monitoring Output	1	Monitor the output 7 of free module
U07.74 (0xA74A)	Module 8: Monitoring Output	1	Monitor the output 8 of free module
U07.76 (0xA74C)	Module 9: Monitoring Output	1	Monitor the output 9 of free module
U07.78 (0xA74E)	Module 10: Monitoring Output	1	Monitor the output 10 of free module
U07.80 (0xA74F)	Module Status	1	Monitor the module status

4.44 C0x: Monitoring Parameters

C00.xx: Basic Monitoring

Code (Address)	Name	Min. Precision	Content
C00.00 (0x2100)	Given Frequency	0.01Hz/0.1Hz	Display the absolute value of drive given frequency.
C00.01 (0x2101)	Output Frequency	0.01Hz/ 0.1Hz	Display the drive output frequency.
C00.02 (0x2102)	Output Current	0.1A	Display the drive output current.
C00.03 (0x2103)	Input Voltage	0.1V	Display the drive input voltage
C00.04 (0x2104)	Output Voltage	0.1V	Display the drive output voltage.
C00.05 (0x2105)	Mechanical Speed	1rpm	Display the motor mechanical speed.
C00.06 (0x2106)	Given Torque	0.1%	Display the drive given torque. Valid when vector is selected as the control mode.
C00.07 (0x2107)	Output Torque	0.1%	Display the drive output torque.
C00.08 (0x2108)	PID Setting	0.1%	Display the PID setting. Valid when PID is selected as the frequency source.
C00.09 (0x2109)	PID Feedback	0.1%	Display the PID feedback. Valid when PID is selected as the frequency source.
C00.10 (0x210A)	Output Power	0.1%/0.1kW	Display the drive current output power.
C00.11 (0x210B)	Bus Voltage	0.1V	Display the drive current bus voltage.
C00.12	Module Temp. 1	0.1°C	Display the drive internal temperature 1.

(0x210C)			
C00.13 (0x210D)	Module Temp. 2	0.1°C	Display the drive internal temperature 2.
C00.14 (0x210E)	Terminal X Status	--	The status of the terminal X is indicated by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C00.14 displays  .
C00.15 (0x210F)	Terminal Y Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C00.15 displays  .
C00.16 (0x2110)	AI1 Value	0.001V/0.001mA	Set the F07.00 for voltage and current input. "0" for voltage input and "1" for current input.
C00.17 (0x2111)	AI2 Value	0.001V/0.001mA	Set the F07.01 for voltage and current input. "0" for voltage input and "1" for current input.
C00.19 (0x2113)	PUL Input	0.001kHz/0.01kHz	The decimal point is set by F05.30; 3 decimal points if F05.30 is 0, and 2 if is otherwise.
C00.20 (0x2114)	AO1	0.01V/0.01mA/ 0.01kHz	Set F06.00 to 0V~10V, 0mA~20mA or pulse output.
C00.21 (0x2115)	AO2	0.01V/0.01mA/ 0.01kHz	Set F06.00 to 0V~10V, 0mA~20mA or pulse output.
C00.22 (0x2116)	Counter Record	1	--
C00.23 (0x2117)	Drive Overload Percentage	0.1%	Display the drive overload percentage.
C00.24 (0x2118)	Motor Overload Percentage	0.1%	Display the motor overload percentage.
C00.25 (0x2119)	Drive Power	0.1kW	Display the drive rated power.
C00.26 (0x211A)	Drive Voltage	1V	Display the drive rated voltage.
C00.27 (0x211B)	Drive Current	0.1A	Display the drive rated current.
C00.28 (0x211C)	Software Version	0.01	Display the drive software version.
C00.29 (0x211D)	Encoder Speed Feedback	0.01Hz	Convert the signal detected by PG encoder to frequency values.
C00.30 (0x211E)	Timer	1 Second/Minute /Hour	The unit is determined by parameter F16.07.
C00.32 (0x2120)	Software Sub-version	0.01	Display the drive software sub-version.
C00.36 (0x2124)	Error Code	1	The number corresponds to the error code, and "0" means no error.
C00.38 (0x2126)	Motor Temp.	0.1°C	Display the motor temperature.
C00.39 (0x2127)	Power Factor Angle	0.1	--
C00.40 (0x2128)	Current Error Count	1	Display the drive current error count.
C00.41 (0x2129)	Current Error 1 Info	1	Display the diagnostic information of drive current error 1.
C00.42 (0x212A)	Current Error 2 Info	1	Display the diagnostic information of drive current error 2.
C00.43 (0x212B)	Current Error 3 Info	1	Display the diagnostic information of drive current error 3.
C00.44 (0x212C)	Current Alarm 1 Info	1	Display the diagnostic information of drive current alarm 1.

C00.45 (0x212D)	Current Alarm 2 Info	1	Display the diagnostic information of drive current alarm 2.
C00.46 (0x212E)	Current Alarm 3 Info	1	Display the diagnostic information of drive current alarm 3.
C00.50 (0x2132)	Recount Total Runtime (h)	1h	Record the drive runtime in hour.
C00.51 (0x2133)	Recount Total Runtime (min)	0.01min	Record the drive runtime in minute.
C00.52 (0x2134)	Recount Total Power-ON (h)	1h	Record the drive power-on time in hour.
C00.53 (0x2135)	Recount Total Power-ON (min)	0.01min	Record the drive power-on time in minute.
C00.54 (0x2136)	Recount Total Power Consumption (Low)	--	Record the low level of drive power consumption.
C00.55 (0x2137)	Recount Total Power Consumption (High)	--	Record the high level of drive power consumption.

C01.xx: Error Record 1

Code (Address)	Name	Min. Precision	Content
C01.00 (0x2200)	Current Error Code	--	Display the current error in code.
C01.01 (0x2201)	Current Error Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C01.02 (0x2202)	Current Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C01.03 (0x2203)	Current Error Output Voltage	0.1V	Display the output voltage during error.
C01.04 (0x2204)	Current Error Output Current	0.1A	Display the output current during error.
C01.05 (0x2205)	Current Error Bus Voltage	0.1V	Display the bus voltage during error.
C01.06 (0x2206)	Current Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C01.07 (0x2207)	Current Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C01.08 (0x2208)	Current Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.09 (0x2209)	Current Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse

			Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.10 (0x220A)	Current Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C01.10 displays .
C01.11 (0x220B)	Current Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C01.11 displays .
C01.12 (0x220C)	Current Error Command Record	--	Display the drive current error command record.
C01.13 (0x220D)	Current Error State Flow	--	Display the current error state flow of the drive.
C01.14 (0x220E)	Current Error Total Power-ON (h)	--	Display the current error total power-on time of the drive in hours.
C01.15 (0x220F)	Current Error Total Power-ON (m)	--	Display the current error total power-on time of the drive in minutes.
C01.16 (0x2210)	Previous 1 Error Type	--	Display the current error in code.
C01.17 (0x2211)	Previous 1 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C01.18 (0x2212)	Previous 1 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C01.19 (0x2213)	Previous 1 Error Output Voltage	0.1V	Display the output voltage during error.
C01.20 (0x2214)	Previous 1 Error Output Current	0.1A	Display the output current during error.
C01.21 (0x2215)	Previous 1 Error Bus Voltage	0.1V	Display the bus voltage during error.
C01.22 (0x2216)	Previous 1 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C01.23 (0x2217)	Previous 1 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C01.24 (0x2218)	Previous 1 Error Drive Status	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved

C01.25 (0x2219)	Previous 1 Error Drive Status	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.26 (0x221A)	Previous 1 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C01.08 displays                   

			2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.41 (0x2229)	Previous 2 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.42 (0x222A)	Previous 2 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C01.10 displays $\begin{matrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{matrix}$.
C01.43 (0x222B)	Previous 2 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C01.11 displays $\begin{matrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{matrix}$.
C01.44 (0x222C)	Previous 2 Error Command Record	--	Display the previous 2 error command record of drive.
C01.45 (0x222D)	Previous 2 Error State Flow	--	Display the previous 2 error state flow of the drive.
C01.46 (0x222E)	Previous 2 Error Total Power-ON (h)	--	Display the previous 2 error total power-on time of the drive in hours.
C01.47 (0x222F)	Previous 2 Error Total Power-ON (min)	--	Display the previous 2 error total power-on time of the drive in minutes.
C01.48 (0x2230)	Previous 3 Error Code	--	Display the current error in code.
C01.49 (0x2231)	Previous 3 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C01.50 (0x2232)	Previous 3 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C01.51 (0x2233)	Previous 3 Error Output Voltage	0.1V	Display the output voltage during error.
C01.52 (0x2234)	Previous 3 Error Output Current	0.1A	Display the output current during error.
C01.53 (0x2235)	Previous 3 Error Bus Voltage	0.1V	Display the bus voltage during error.
C01.54 (0x2236)	Previous 3 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C01.55 (0x2237)	Previous 3 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C01.56 (0x2238)	Previous 3 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating

			Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.57 (0x2239)	Previous 3 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.58 (0x223A)	Previous 3 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C01.10 displays $\begin{matrix} 11 \\ \\ \\ \\ \\ \\ \\ \end{matrix}$.
C01.59 (0x223B)	Previous 3 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C01.11 displays $\begin{matrix} 11 \\ \\ \\ \\ \\ \\ \\ \end{matrix}$.
C01.60 (0x223C)	Previous 3 Error Command Record	--	Display the previous 3 error command record of drive.
C01.61 (0x223D)	Previous 3 Error State Flow	--	Display the previous 3 error state flow of the drive.
C01.62 (0x223E)	Previous 3 Error Total Power-ON (h)	--	Display the previous 3 error total power-on time of the drive in hours.
C01.63 (0x223F)	Previous 3 Error Total Power-ON (min)	--	Display the previous 3 error total power-on time of the drive in minutes.
C01.64 (0x2240)	Previous 4 Error Code	--	Display the current error in code.
C01.65 (0x2241)	Previous 4 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C01.66 (0x2242)	Previous 4 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C01.67 (0x2243)	Previous 4 Error Output Voltage	0.1V	Display the output voltage during error.
C01.68 (0x2244)	Previous 4 Error Output Current	0.1A	Display the output current during error.
C01.69 (0x2245)	Previous 4 Error Bus Voltage	0.1V	Display the bus voltage during error.
C01.70 (0x2246)	Previous 4 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C01.71 (0x2247)	Previous 4 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C01.72 (0x2248)	Previous 4 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop

			1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.73 (0x2249)	Previous 4 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.74 (0x224A)	Previous 4 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C01.10 displays $\begin{matrix} 11 \\ 11111111 \end{matrix}$.
C01.75 (0x224B)	Previous 4 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C01.11 displays $\begin{matrix} 11 \\ 11111111 \end{matrix}$.
C01.76 (0x224C)	Previous 4 Error Command Record	--	Display the previous 4 error command record of drive.
C01.77 (0x224D)	Previous 4 Error State Flow	--	Display the previous 4 error state flow of the drive.
C01.78 (0x224E)	Previous 4 Error Total Power-ON (h)	--	Display the previous 4 error total power-on time of the drive in hours.
C01.79 (0x224F)	Previous 4 Error Total Power-ON (min)	--	Display the previous 4 error total power-on time of the drive in minutes.
C01.80 (0x2250)	Previous 5 Error Code	--	Display the current error in code.
C01.81 (0x2251)	Previous 5 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C01.82 (0x2252)	Previous 5 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C01.83 (0x2253)	Previous 5 Error Output Voltage	0.1V	Display the output voltage during error.
C01.84 (0x2254)	Previous 5 Error Output Current	0.1A	Display the output current during error.
C01.85 (0x2255)	Previous 5 Error Bus Voltage	0.1V	Display the bus voltage during error.
C01.86 (0x2256)	Previous 5 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C01.87 (0x2257)	Previous 5 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C01.88 (0x2258)	Previous 5 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward

			1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.89 (0x2259)	Previous 5 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C01.90 (0x225A)	Previous 5 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C01.10 displays $\begin{matrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{matrix}$.
C01.91 (0x225B)	Previous 5 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C01.11 displays $\begin{matrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{matrix}$.
C01.92 (0x225C)	Previous 5 Error Command Record	--	Display the previous 5 error command record of drive.
C01.93 (0x225D)	Previous 5 Error State Flow	--	Display the previous 5 error state flow of the drive.
C01.94 (0x225E)	Previous 5 Error Total Power-ON (h)	--	Display the previous 5 error total power-on time of the drive in hours.
C01.95 (0x225F)	Previous 5 Error Total Power-ON (min)	--	Display the previous 5 error total power-on time of the drive in minutes.

C02.xx: Error Record 2

Code (Address)	Name	Min. Precision	Content
C02.00 (0x2300)	Previous 6 Error Code	--	Display the current error in code.
C02.01 (0x2301)	Previous 6 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C02.02 (0x2302)	Previous 6 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C02.03 (0x2303)	Previous 6 Error Output Voltage	0.1V	Display the output voltage during error.
C02.04 (0x2304)	Previous 6 Error Output Current	0.1A	Display the output current during error.
C02.05	Previous 6 Error Bus	0.1V	Display the bus voltage during error.

(0x2305)	Voltage		
C02.06 (0x2306)	Previous 6 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C02.07 (0x2307)	Previous 6 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C02.08 (0x2308)	Previous 6 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.09 (0x2309)	Previous 6 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.10 (0x230A)	Previous 6 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C02.10 displays  .
C02.11 (0x230B)	Previous 6 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C02.11 displays  .
C02.12 (0x230C)	Previous 6 Error Command Record	--	Display the previous 6 error command record of drive.
C02.13 (0x230D)	Previous 6 Error State Flow	--	Display the previous 6 error state flow of the drive.
C02.14 (0x230E)	Previous 6 Error Total Power-ON (h)	--	Display the previous 6 error total power-on time of the drive in hours.
C02.15 (0x230F)	Previous 6 Error Total Power-ON (min)	--	Display the previous 6 error total power-on time of the drive in minutes.
C02.16 (0x2600)	Previous 7 Error Type	--	Display the current error in code.
C02.17 (0x2311)	Previous 7 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C02.18 (0x2312)	Previous 7 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C02.19 (0x2313)	Previous 7 Error Output Voltage	0.1V	Display the output voltage during error.

C02.20 (0x2314)	Previous 7 Error Output Current	0.1A	Display the output current during error.
C02.21 (0x2315)	Previous 7 Error Bus Voltage	0.1V	Display the bus voltage during error.
C02.22 (0x2316)	Previous 7 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C02.23 (0x2317)	Previous 7 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C02.24 (0x2318)	Previous 7 Error Drive Status	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.25 (0x2319)	Previous 7 Error Drive Status	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.26 (0x231A)	Previous 7 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C02.08 displays  .
C02.27 (0x231B)	Previous 7 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C02.09 displays  .
C02.28 (0x231C)	Previous 7 Error Command Record	--	Display the previous 7 error command record of drive.
C02.29 (0x231D)	Previous 7 Error State Flow	--	Display the previous 7 error state flow of the drive.
C02.30 (0x231E)	Previous 7 Error Total Power-ON (h)	--	Display the previous 7 error total power-on time of the drive in hours.
C02.31 (0x231F)	Previous 7 Error Total Power-ON (min)	--	Display the previous 7 error total power-on time of the drive in minutes.
C02.32 (0x2320)	Previous 8 Error Code	--	Display the current error in code.
C02.33 (0x2321)	Previous 8 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C02.34	Previous 8 Error Output	0.01Hz/	Display the output frequency during error.

(0x2322)	Frequency	0.1Hz	
C02.35 (0x2323)	Previous 8 Error Output Voltage	0.1V	Display the output voltage during error.
C02.36 (0x2324)	Previous 8 Error Output Current	0.1A	Display the output current during error.
C02.37 (0x2325)	Previous 8 Error Bus Voltage	0.1V	Display the bus voltage during error.
C02.38 (0x2326)	Previous 8 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C02.39 (0x2327)	Previous 8 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C02.40 (0x2328)	Previous 8 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.41 (0x2329)	Previous 8 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.42 (0x232A)	Previous 8 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C02.10 displays  .
C02.43 (0x232B)	Previous 8 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C02.11 displays  .
C02.44 (0x232C)	Previous 8 Error Command Record	--	Display the previous 8 error command record of drive.
C02.45 (0x232D)	Previous 8 Error State Flow	--	Display the previous 8 error state flow of the drive.
C02.46 (0x232E)	Previous 8 Error Total Power-ON (h)	--	Display the previous 8 error total power-on time of the drive in hours.
C02.47 (0x232F)	Previous 8 Error Total Power-ON (min)	--	Display the previous 8 error total power-on time of the drive in minutes.
C02.48 (0x2330)	Previous 9 Error Code	--	Display the current error in code.
C02.49	Previous 9 Errcode Info	1	Display the error code and error sub-code in

(0x2331)			digital form, and check the corresponding solutions in the error diagnosis section.
C02.50 (0x2332)	Previous 9 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C02.51 (0x2333)	Previous 9 Error Output Voltage	0.1V	Display the output voltage during error.
C02.52 (0x2334)	Previous 9 Error Output Current	0.1A	Display the output current during error.
C02.53 (0x2335)	Previous 9 Error Bus Voltage	0.1V	Display the bus voltage during error.
C02.54 (0x2336)	Previous 9 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C02.55 (0x2337)	Previous 9 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C02.56 (0x2338)	Previous 9 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.57 (0x2339)	Previous 9 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.58 (0x233A)	Previous 9 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C02.10 displays  .
C02.59 (0x233B)	Previous 9 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C02.11 displays  .
C02.60 (0x233C)	Previous 9 Error Command Record	--	Display the previous 9 error command record of drive.
C02.61 (0x233D)	Previous 9 Error State Flow	--	Display the previous 9 error state flow of the drive.
C02.62 (0x233E)	Previous 9 Error Total Power-ON (h)	--	Display the previous 9 error total power-on time of the drive in hours.
C02.63 (0x233F)	Previous 9 Error Total Power-ON (min)	--	Display the previous 9 error total power-on time of the drive in minutes.

C02.64 (0x2340)	Previous 10 Error Code	--	Display the current error in code.
C02.65 (0x2341)	Previous 10 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C02.66 (0x2342)	Previous 10 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C02.67 (0x2343)	Previous 10 Error Output Voltage	0.1V	Display the output voltage during error.
C02.68 (0x2344)	Previous 10 Error Output Current	0.1A	Display the output current during error.
C02.69 (0x2345)	Previous 10 Error Bus Voltage	0.1V	Display the bus voltage during error.
C02.70 (0x2346)	Previous 10 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C02.71 (0x2347)	Previous 10 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C02.72 (0x2348)	Previous 10 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.73 (0x2349)	Previous 10 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.74 (0x234A)	Previous 10 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C02.10 displays  .
C02.75 (0x234B)	Previous 10 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C02.11 displays  .
C02.76 (0x234C)	Previous 10 Error Command Record	--	Display the previous 10 error command record of drive.
C02.77 (0x234D)	Previous 10 Error State Flow	--	Display the previous 10 error state flow of the drive.
C02.78	Previous 10 Error Total	--	Display the previous 10 error total power-on time

(0x234E)	Power-ON (h)		of the drive in hours.
C02.79 (0x234F)	Previous 10 Error Total Power-ON (min)	--	Display the previous 10 error total power-on time of the drive in minutes.
C02.80 (0x2350)	Previous 11 Error Code	--	Display the current error in code.
C02.81 (0x2351)	Previous 11 Errcode Info	1	Display the error code and error sub-code in digital form, and check the corresponding solutions in the error diagnosis section.
C02.82 (0x2352)	Previous 11 Error Output Frequency	0.01Hz/ 0.1Hz	Display the output frequency during error.
C02.83 (0x2353)	Previous 11 Error Output Voltage	0.1V	Display the output voltage during error.
C02.84 (0x2354)	Previous 11 Error Output Current	0.1A	Display the output current during error.
C02.85 (0x2355)	Previous 11 Error Bus Voltage	0.1V	Display the bus voltage during error.
C02.86 (0x2356)	Previous 11 Error Module Temp.1	0.1°C	Display the temperature 1 of the drive inner module during error.
C02.87 (0x2357)	Previous 11 Error Module Temp.2	0.1°C	Display the temperature 2 of the drive inner module during error.
C02.88 (0x2358)	Previous 11 Error Drive Status 1	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.89 (0x2359)	Previous 11 Error Drive Status 2	0x0000	Ones-bit: Operation direction 0: Forward 1: Reverse Tens-bit: Operation status 0: Stop 1: Stable running 2: Accelerating 3: Decelerating Hundreds-bit: Overvoltage and overcurrent 0: Normal 1: Overvoltage 2: Overcurrent 3: Overvoltage and overcurrent Thousands-bit: Reserved
C02.90 (0x235A)	Previous 11 Error Input Terminal Status	--	The status of the terminal X is displayed by 1 (ON) and 0 (OFF). For example, when both terminals X1 and X2 are ON, C02.10 displays  .
C02.91 (0x235B)	Previous 11 Error Output Terminal Status	--	The status of the terminal Y is displayed by 1 (ON) and 0 (OFF). For example, when Y terminal and relay are ON, C02.11 displays  .
C02.92 (0x235C)	Previous 11 Error Command Record	--	Display the previous 11 error command record of drive.

C02.93 (0x235D)	Previous 11 Error State Flow	--	Display the previous 11 error state flow of the drive.
C02.94 (0x235E)	Previous 11 Error Total Power-ON (h)	--	Display the previous 11 error total power-on time of the drive in hours.
C02.95 (0x235F)	Previous 11 Error Total Power-ON (min)	--	Display the previous 11 error total power-on time of the drive in minutes.

C03.xx: Operation Monitoring

Code (Address)	Name	Min. Precision	Content
C03.00 (0x2400)	PID Control Status	--	Display the PID control status of drive.
C03.01 (0x2401)	PID Deviation	0.1%	Display the PID deviation of drive.
C03.02 (0x2402)	PID Output	0.1%	Display the PID output value of drive.
C03.03 (0x2403)	PID Proportional Output	0.1%	Display the PID proportional output.
C03.04 (0x2404)	PID Integral Output	0.1%	Display the PID integral output.
C03.05 (0x2405)	PLC Operation Phase	1	Display the current PLC operation phase.
C03.06 (0x2406)	PLC Stage Frequency	0.01Hz	Display the current PLC output frequency.
C03.07 (0x2407)	PLC Phase Runtime	1s	Display the current PLC runtime.
C03.08 (0x2408)	Current Power-ON	1h	Record the current power-on time of drive.
C03.09 (0x2409)	Current Runtime	0.1h	Record the current runtime of drive.
C03.10 (0x240A)	Total Runtime (h)	1h	Record the total drive runtime in hour.
C03.11 (0x240B)	Total Power-ON (h)	1h	Record the total drive power-on time in hour.
C03.12 (0x240C)	Total Runtime (min)	0.01h	Record the total drive power-on time in minute.
C03.13 (0x240D)	Total Power Consumption (Low)	--	Record the low level of total drive power consumption.
C03.14 (0x240E)	Total Power Consumption (High)	--	Record the high level of drive power consumption.
C03.20 (0x2414)	Source A Frequency	0.01Hz	Display the frequency of source A.
C03.21 (0x2415)	Source B Frequency	0.01Hz	Display the frequency of source B.
C03.22 (0x2416)	Upper Limit Frequency	0.01Hz	Display the upper limit frequency of drive.
C03.23 (0x2417)	CBC Overload Percentage	0.1%	Display the drive overload percentage.
C03.24 (0x2418)	CBC Count	--	--
C03.25 (0x2419)	Encoder Feedback Angle	--	--
C03.26 (0x241A)	Total Z-Pulse Error	--	--
C03.27 (0x241B)	Z-Pulse No.	--	--

C03.28 (0x241C)	AB-Pulse Count	--	--
C03.29 (0x241D)	Drive Command	--	Display the status of drive command.
C03.30 (0x241E)	Terminal Command	--	Display the status of terminal X command.
C03.31 (0x241F)	Source Command	--	Obtain the command from command source.
C03.33 (0x2421)	Local Active Current	--	Display the local active current.
C03.34 (0x2422)	Received Active Current	--	Display the active current received by drive.
C03.35 (0x2423)	Overload LF Derating Coefficient	0.1%	Display the overload low-frequency derating coefficient of the drive.
C03.36 (0x2424)	Overload Carrier Derating Coefficient	0.1%	Display the overload carrier derating coefficient of the drive.
C03.37 (0x2425)	Overload Protection Current	0.1%	Display the overload protection current of the drive.
C03.38 (0x2426)	Overload Protection Time	0.1s	Display the overload protection time of the drive.
C03.39 (0x2427)	Total Overload	0.1%	Display the total overload of the drive.
C03.40 (0x2428)	V/F-SPLIT Voltage A	0.01%	Display the V/F-SPLIT voltage A of the drive.
C03.41 (0x2429)	V/F-SPLIT Voltage B	0.01%	Display the V/F-SPLIT voltage B of the drive.
C03.42 (0x243A)	V/F-SPLIT Output Voltage	--	Display the V/F-SPLIT output voltage of the drive.
C03.43 (0x243B)	Current ACC Time	0.01s	Display the current acceleration time of the drive.
C03.44 (0x243C)	Current DEC Time	0.01s	Display the current deceleration time of the drive.
C03.45 (0x242D)	U-Phase Current RMS	0.1A	Display the U-phase current root mean square of the drive.
C03.46 (0x242E)	V-Phase Current RMS	0.1A	Display the V-phase current root mean square of the drive.
C03.47 (0x242F)	W-Phase Current RMS	0.1A	Display the W-phase current root mean square of the drive.

C04.xx: System Monitoring

Code (Address)	Name	Min. Precision	Content
C04.00 (0x2500)	Current Model	--	Display the current drive model.
C04.01 (0x2501)	E-label 1	--	Main category
C04.02 (0x2502)	E-label 2	--	Product series
C04.03 (0x2503)	E-label 3	--	Product model
C04.04 (0x2504)	E-label 4	--	Product sub-model
C04.05 (0x2505)	E-label 5	--	Chip type
C04.06 (0x2506)	E-label 6	--	Chip model

C04.10 (0x250A)	Software Upgrader ID	--	--
C04.11 (0x250B)	Drive Version	--	Drive module version
C04.12 (0x250C)	Drive Sub-version	--	Drive module sub-version
C04.13 (0x250D)	Funcode Version	--	Funcode Version No.
C04.14 (0x250E)	Keypad Version	--	External keypad version No.
C04.16 (0x2510)	Compilation Year	--	Compilation year of the software
C04.17 (0x2511)	Compilation Date	--	Software compilation date
C04.23 (0x2517)	Production Year	--	--
C04.24 (0x2518)	Production Date	--	--
C04.26 (0x251A)	Current Motor	--	Current active motors
C04.27 (0x251B)	Current Key Value	--	--
C04.28 (0x251C)	Key Function	--	Function of F11 keys
C04.31 (0x251F)	Current Drive Algorithm	--	Current active control mode for F01.00 type
C04.32 (0x2520)	Current Drive Stage	--	Internal parameter
C04.33 (0x2521)	Current EEPROM Status	--	Read/Write indicator for current EEPROM
C04.34 (0x2522)	Current State Flow	--	Drive state flow of undervoltage, stop, and operation
C04.35 (0x2523)	Current State Record	--	Collection of drive operation status
C04.40 (0x2528)	Max. Carrier	0.1kHz	Maximum carrier frequency of the drive
C04.41 (0x2529)	Current Carrier	0.1kHz	Current carrier frequency of the drive
C04.42 (0x252A)	Deadtime	0.1us	--
C04.50 (0x2532)	Function Key Status	--	Status of multi-function keys on the keypad
C04.52 (0x2534)	External Keypad Software Version	--	Software version of the external keypad
C04.54 (0x2536)	Extension Slot Identification Status 1	--	Status of the drive extension slot 1
C04.55 (0x2537)	Extension Slot Identification Status 2	--	Status of the drive extension slot 2
C04.56 (0x2538)	Extension Slot Identification Status 3	--	Status of the drive extension slot 3
C04.57 (0x2539)	Extension Slot 1 Version	--	Version No. of drive extension slot 1
C04.69 (0x2545)	External 24V Power Flag	1	Individual external 24V power supply flag

C11.xx: IO Communication Monitoring

Code (Address)	Name	Min. Precision	Content
C11.00 (0x2C00)	X Terminal Status	--	Monitor the status of terminal X
C11.01 (0x2C01)	Y Terminal Status	--	Monitor the status of terminal Y
C11.02 (0x2C02)	AI3 Voltage	0.001V	Monitor the AI3 input voltage
C11.03 (0x2C03)	AI3 ADC Value	0.001	Monitor the AI3 ADC value
C11.04 (0x2C04)	AO3 Voltage	0.001V	Monitor the AO3 output voltage
C11.06 (0x2C06)	PT1 Temp.	0.1°C	Monitor the PT1 temperature.
C11.07 (0x2C07)	PT2 Temp.	0.1°C	Monitor the PT2 temperature.
C11.08 (0x2C08)	PT3 Temp.	0.1°C	Monitor the PT3 temperature.
C11.09 (0x2C09)	Temp.1 Value	0.1°C	Monitor the temperature 1 value.
C11.10 (0x2C0A)	Temp.2 Value	0.1°C	Monitor the temperature 2 value.
C11.11 (0x2C0B)	Temp.3 Value	0.1°C	Monitor the temperature 3 value.
C11.12 (0x2C0C)	PT1 ADC Value	0.001	Monitor the PT1 ADC value
C11.13 (0x2C0D)	PT2 ADC Value	0.001	Monitor the PT2 ADC value
C11.14 (0x2C0E)	PT3 ADC Value	0.001	Monitor the PT3 ADC value
C11.15 (0x2C0F)	RTC Year	1	IO card time - year
C11.16 (0x2C10)	RTC Month	1	IO card time - month
C11.17 (0x2C11)	RTC Day	1	IO card time - day
C11.18 (0x2C12)	RTC Hour	1	IO card time - hour
C11.19 (0x2C13)	RTC Minute	1	IO card time - minute
C11.20 (0x2C14)	RTC Second	1	IO card time - second

C12.xx: Extension Communication Monitoring

Code (Address)	Name	Min. Precision	Content
C12.00 (0x2D00)	Extension 1uart Heartbeat	1	Used to determine if the extension 1uart is disconnected
C12.01 (0x2D01)	Extension 2uart Heartbeat	1	Used to determine if the extension 2uart is disconnected
C12.02 (0x2D02)	Ex1 Process Input Data 1 (Original)	1	Monitor the original Ex1 process input data 1
C12.03 (0x2D03)	Ex1 Process Input Data 2 (Original)	1	Monitor the original Ex1 process input data 2

C12.04 (0x2D04)	Ex1 Process Input Data 3 (Original)	1	Monitor the original Ex1 process input data 3
C12.05 (0x2D05)	Ex1 Process Input Data 4 (Original)	1	Monitor the original Ex1 process input data 4
C12.06 (0x2D06)	Ex1 Process Input Data 5 (Original)	1	Monitor the original Ex1 process input data 5
C12.07 (0x2D07)	Ex1 Process Input Data 6 (Original)	1	Monitor the original Ex1 process input data 6
C12.08 (0x2D08)	Ex1 Process Input Data 7 (Original)	1	Monitor the original Ex1 process input data 7
C12.09 (0x2D09)	Ex1 Process Input Data 8 (Original)	1	Monitor the original Ex1 process input data 8
C12.10 (0x2D0A)	Ex1 Process Input Data 9 (Original)	1	Monitor the original Ex1 process input data 9
C12.11 (0x2D0B)	Ex1 Process Input Data 10 (Original)	1	Monitor the original Ex1 process input data 10
C12.12 (0x2D0C)	Ex1 Process Input Data 11 (Original)	1	Monitor the original Ex1 process input data 11
C12.13 (0x2D0D)	Ex1 Process Input Data 12 (Original)	1	Monitor the original Ex1 process input data 12
C12.14 (0x2D0E)	Ex1 Process Input Data 13 (Original)	1	Monitor the original Ex1 process input data 13
C12.15 (0x2D0F)	Ex1 Process Input Data 14 (Original)	1	Monitor the original Ex1 process input data 14
C12.16 (0x2D10)	Ex1 Process Input Data 15 (Original)	1	Monitor the original Ex1 process input data 15
C12.17 (0x2D11)	Ex1 Process Input Data 16 (Original)	1	Monitor the original Ex1 process input data 16
C12.18 (0x2D12)	Ex2 Process Input Data 1 (Original)	1	Monitor the original Ex2 process input data 1
C12.19 (0x2D13)	Ex2 Process Input Data 2 (Original)	1	Monitor the original Ex2 process input data 2
C12.20 (0x2D14)	Ex2 Process Input Data 3 (Original)	1	Monitor the original Ex2 process input data 3
C12.21 (0x2D15)	Ex2 Process Input Data 4 (Original)	1	Monitor the original Ex2 process input data 4
C12.22 (0x2D16)	Ex2 Process Input Data 5 (Original)	1	Monitor the original Ex2 process input data 5
C12.23 (0x2D17)	Ex2 Process Input Data 6 (Original)	1	Monitor the original Ex2 process input data 6
C12.24 (0x2D18)	Ex2 Process Input Data 7 (Original)	1	Monitor the original Ex2 process input data 7
C12.25 (0x2D19)	Ex2 Process Input Data 8 (Original)	1	Monitor the original Ex2 process input data 8
C12.26 (0x2D1A)	Ex2 Process Input Data 9 (Original)	1	Monitor the original Ex2 process input data 9
C12.27 (0x2D1B)	Ex2 Process Input Data 10 (Original)	1	Monitor the original Ex2 process input data 10
C12.28 (0x2D1C)	Ex2 Process Input Data 11 (Original)	1	Monitor the original Ex2 process input data 11
C12.29 (0x2D1D)	Ex2 Process Input Data 12 (Original)	1	Monitor the original Ex2 process input data 12
C12.30 (0x2D1E)	Ex2 Process Input Data 13 (Original)	1	Monitor the original Ex2 process input data 13
C12.31 (0x2D1F)	Ex2 Process Input Data 14 (Original)	1	Monitor the original Ex2 process input data 14
C12.32	Ex2 Process Input Data 15	1	Monitor the original Ex2 process input data 15

(0x2D20)	(Original)		
C12.33 (0x2D21)	Ex2 Process Input Data 16 (Original)	1	Monitor the original Ex2 process input data 16
C12.34 (0x2D22)	PN Extension MAC0	0x0000	Monitor the PN extension MAC0
C12.35 (0x2D23)	PN Extension MAC1	0x0000	Monitor the PN extension MAC1
C12.36 (0x2D24)	PN Extension MAC2	0x0000	Monitor the PN extension MAC2

4.45 Terminal I/O Function

Terminal X	Description	Terminal X	Description	Terminal X	Description
0	None	24	PID Setting Shift 1 bit0	48	Command Source to Keypad
1	FWD Operation	25	PID Setting Shift 2 bit1	49	Command Source to Terminal
2	REV Operation	26	PID Setting Shift 3 bit2	50	Command Source to Communication
3	Three-wire Operation (Xi)	27	PID Feedback Shift 1 bit0	51	Command Source to Extension
4	FWD Jog	28	PID Feedback Shift 2 bit1	52	Operation Disable
5	REV Jog	29	PID Feedback Shift 3 bit2	53	FWD Disable
6	Free Stop	30	PLC Pause	54	REV Disable
7	Emergency Stop	31	PLC Restart	55	Motor Selection bit0
8	Error Reset	32	ACC/DEC Time 1 bit0	56	Motor Selection bit1
9	External Error Input	33	ACC/DEC Time 2 bit1	57	Motor Selection bit2
10	Frequency Increase (UP)	34	ACC/DEC Pause	58	Backup Frequency
11	Frequency Decrease (DW)	35	Wobble Frequency Input	59	Torque Source B Shift
12	Frequency Reset (UP/DW Reset)	36	Wobble Frequency Pause	60	Speed/Torque Control Shift

13	Reserved	37	Wobble Frequency Reset	61	Reserved
14	Combined Frequency Source to Source A	38	Keypad Keys and Display Self-test	62	Jog Frequency Limit as Torque Mode Frequency Cap
15	Combined Frequency Source to Source B	39	PUL Frequency Measurement, Specific Terminal	63~87	Reserved
16	Multi-frequency Terminal 1 bit0	40	Timer Trigger	88	Reserved
17	Multi-frequency Terminal 2 bit1	41	Timer Reset	89	Reserved
18	Multi-frequency Terminal 3 bit2	42	Counter Signal Input Terminal	90	Reserved
19	Multi-frequency Terminal 4 bit3	43	Counter Terminal Reset	91	Reserved
20	PID Control Cancel	44	DC Brake Command	92	Reserved
21	PID Control Pause	45	Pre-excitation Command	93	Reserved
22	PID Characteristic Shift	46	Reserved	94	Reserved
23	PID Parameter Shift	47	Reserved	95	Reserved
Terminal Y	Description	Terminal Y	Description	Terminal Y	Description
0	No Output	22	Counter Maximum Arrival	44	Motor 4 Enable
1	Drive in Operation	23	Counter Setting Arrival	45	PID Output Saturation
2	Drive in REV Operation	24	Dynamic Braking	46	PID Characteristic Negative
3	Drive in FWD Operation	25	PG Feedback Break	47	Accelerating
4	Error Tripping Alarm 1 (Report during auto reset)	26	Emergency Stopping	48	Decelerating
5	Error Tripping Alarm 2 (No report during auto reset)	27	Load Alarm 1 (Report error and alarm)	49	Constant-frequency Operating

6	External Error Stop	28	Load Alarm 2 (Report error and alarm)	50	FWD Disable
7	Drive Low Voltage	29	Drive in Alarm	51	REV Disable
8	AC Drive Ready	30	0x3018 Control Output	52	DC Braking
9	Output Frequency Detection 1 (FDT1)	31	Drive Overheat	53	External Error Terminal Actived
10	Output Frequency Detection 2 (FDT2)	32	Motor Overheat Alarm	54	Under Torque Control
11	Target Frequency Arrival	33	Drive Overloading	55	Under Position Control
12	Zero-frequency Operation	34	Motor Overloading	56	Jogging
13	Upper Limit Frequency Arrival	35	Reserved	57	Undervoltage Suppressing
14	Lower Limit Frequency Arrival	36	Reserved	58	Overvoltage Suppressing
15	Program Cycle Completion	37	Comparator 1	59	Overcurrent Suppressing
16	Program Stage Completion	38	Comparator 2	60	Speed Limit (No shutdown on fault)
17	PID Feedback above Upper Limit	39	Comparator 3	61	Current Limit (No shutdown on fault)
18	PID Feedback below Lower Limit	40	Comparator 4	62	Power Limit (No shutdown on fault)
19	PID Feedback Sensor Break	41	Motor 1 Enable	63	Reserved
20	Meter Length Arrival	42	Motor 2 Enable		
21	Timing Arrival	43	Motor 3 Enable		

4.46 Free Module Function

Free Module	Description	Free Module	Description	Free Module	Description
0	Invalid	10	Multiply	20	Level to Pulse

1	AND	11	Divide	21	Pulse to Level
2	OR	12	Arithmetic Square Root	22	Logic Delay
3	NOT	13	Differential	23	Pulse Generator
4	XOR	14	Compare	24	Ramp
5	NOR	15	Limit	25	Transfer
6	INV	16	Max.	26	Reserved
7	Absolute	17	Min.	27	Reserved
8	Add	18	Avg.	28	Reserved
9	Subtract	19	Filter	29	Reserved

4.47 Error and Alarm Codes

Note: The numbers in brackets in the code column are error codes and alarm codes. (Dec. indicates decimal).

Display (Dec.)	Name	Type	Display (Dec.)	Name	Type
E.SC1 (1)	System failure during	Error	E. LoC (85)	Program protection	Error
E. SC2 (2)	System failure during	Error	E. EEP (86)	Funcode write error	Error
E. SC3 (3)	System failure during constant	Error	E. PLL (87)	PLL error	Error
E. SC4 (4)	System failure during stop	Error	E. Eb1 (91)	Extension 1 break	Error
E. oC1 (5)	Overcurrent during	Error	E. Eb2 (92)	Extension 2 break	Error
E. oC2 (6)	Overcurrent during	Error	E. Eb3 (93)	Extension 3 break	Error
E. oC3 (7)	Overcurrent during constant	Error	E. EbCm (94)	Extension communication error	Error
E. ou1 (9)	Overvoltage during	Error	E. buS5 (95)	Other extension error	Error

E. ou2 (10)	Overvoltage during	Error	E. CP1 (96)	Comparator 1 error	Error
E. ou3 (11)	Overvoltage during constant	Error	E. CP2 (97)	Comparator 2 error	Error
E. LoC (13)	Undervoltage during	Error	E. CP3 (98)	Comparator 3 error	Error
E. oL1 (14)	Motor overload	Error	E. CP4 (99)	Comparator 4 error	Error
E. oL2 (15)	Drive overcurrent	Error	E. FA1 (110)	Reserved for extension 1	Error
E. oL3 (16)	Drive CBC	Error	E. FA2 (111)	Reserved for extension 2	Error
E. oL4 (17)	Drive overload 3	Error	E. FA3 (112)	Reserved for extension 3	Error
E. LoC (18)	Input phase loss	Error	E.FA4 (113)	Reserved for extension 4	Error
E. LoC (19)	Three-phase output phase	Error	E.FA5 (114)	Reserved for extension 5	Error
E. oLF1 (20)	U phase loss	Error	E.FA6 (115)	Reserved for extension 6	Error
E. oLF2 (21)	V phase loss	Error	E.FA7 (116)	Reserved for extension 7	Error
E. oLF3 (22)	W phase loss	Error	E.FA8 (117)	Reserved for extension 8	Error
E. oLF4 (23)	Three-phase current	Error	E. FrA (118)	Material fracture	Error
E. SD (25)	SD latch error	Error	The following are alarm codes		
E. oCE (26)	Abnormal current	Error	A. Lu1 (128)	Low voltage during stop	Alarm
E. H1b (27)	Internal temp sensor 1 break	Error	A. ou (129)	Overvoltage during stop	Alarm
E. H2b (28)	Internal temp sensor 2 break	Error	A. iLF (130)	Input phase loss	Alarm
E. oH1 (30)	Drive overheat	Error	A. PiD (131)	PID feedback break	Alarm
E. oH2 (31)	Rectifier overheat	Error	A. EEP (132)	Parameter storage failure	Alarm
E. oH3 (32)	Motor overheat	Error	A. DEF (133)	Excessive speed deviation	Alarm

E. EF (33)	External error	Error	A. SPD (134)	Overspeed	Alarm
E. CE (34)	Communication error	Error	A. GPS1 (135)	GPS lock	Alarm
E. HAL1 (35)	Large U-phase zero drift	Error	A. GPS2 (136)	GPS disconnection	Alarm
E. HAL2 (36)	Large V-phase zero drift	Error	A. CE (137)	Modbus communication disconnection	Alarm
E. HAL (37)	Non-0 current sum of three	Error	A. LD1 (138)	Load protection 1	Alarm
E. HAL3 (38)	Large W-phase zero drift	Error	A. LD2 (139)	Load protection 2	Alarm
E. PoS (39)	24V power short circuit	Error	A. buS (140)	Extension break	Alarm
E. SG (40)	Short to ground	Error	A. oH1 (141)	Module overheat	Alarm
E. FSG (41)	Fan short to ground	Error	A. oH3 (142)	Motor overheat	Alarm
E. PiD (42)	PID feedback break	Error	A. run1 (143)	Operation command conflict	Alarm
A. CoP (43)	Parameter copy error	Alarm	A. run2 (148)	Jogging terminal startup protection	Alarm
E. PG1 (44)	PG parameter error	Error	A. run3 (149)	Terminal startup protection	Alarm
E. bru (50)	Brake unit error	Error	A. PA2 (144)	External keypad break	Alarm
E. E51 (51)	Reserved	Error	A. FA1 (150)	Reserved for extension 1	Alarm
E. Texx (52)	Motor auto-tuning	Error	A. FA2 (151)	Reserved for extension 2	Alarm
E. FS (55)	Fan error	Error	A. FA3 (152)	Reserved for extension 3	Alarm
E. STO1 (56)	STO1	Error	A. FA4 (153)	Reserved for extension 4	Alarm
E. ST02 (57)	STO2	Error	A. FA5 (154)	Reserved for extension 5	Alarm
E. STO3 (58)	STO3	Error	A. FA6 (155)	Reserved for extension 6	Alarm

E. iAE1 (71)	Initial angle tuning failure 1	Error	A. FrA (157)	Material fracture	Alarm
E. iAE2 (72)	Initial angle tuning failure 2	Error	A. OH4 (158)	Motor overheat	Alarm
E. iAE3 (73)	Initial angle tuning failure 3	Error	A. OHb (158)	Motor temperature sensor break	Alarm
E. PST1 (74)	PM step loss 1	Error	A. LC1 (161)	Cooling fan maintenance period	Alarm
E. PST2 (75)	PM step loss 2	Error	A. LC2 (162)	Capacitor maintenance period	Alarm
E. PST3 (76)	PM step loss 3	Error	A. LC3 (163)	Main circuit charging contactor	Alarm
E. DEF (77)	Excessive speed deviation	Error	A. LC4 (164)	IGBT maintenance period	Alarm
E. SPD (78)	Overspeed	Error	A. CP3 (166)	Comparator 3 alarm	Alarm
E. LD1 (79)	Load protection 1	Error	A. CP4 (167)	Comparator 4 alarm	Alarm
E. LD2 (80)	Load protection 2	Error	-	-	-
E. CPu (81)	CPU timeout	Error	-	-	-
E. DAT (84)	Parameter setting error	Error	-	-	-

5 Maintenance

5.1 Inspection

The drives consist of semiconductor devices, passive electronic devices, and motion devices, all of which have a service life, and even under normal operating conditions, some of the devices may change in characteristics or fail if their service life is exceeded. To prevent malfunction, preventive inspections and maintenance such as daily inspections, periodic inspections, and device replacement must be performed. It is recommended that inspections be performed every 3 to 4 months after the machine is installed.

Daily inspection

To avoid the drive function deterioration and product damage, please check and confirm the following daily items every day and carry out valid records and tracking.



CAUTION

Do not perform wiring, inspection or repair work while the power is on. Before starting work, be sure to switch off the power of all machines. After the power is switch off, there is still residual voltage in the capacitor inside the drive. It is necessary to confirm that the main circuit voltage has fallen to a safe level, and wait 15 minutes before performing related operations to avoid personal accidents.

Item	Content	Solution
Surroundings	Whether the installation environment is suitable.	Remove pollution sources or improve the installation environment.
Power supply	Whether the power supply voltage meets the requirements and whether there is a lack of phase.	Use power supply according to the nameplate requirements.
Motor	Whether the motor has abnormal vibration or sound.	Confirm the connection with the machine; Tighten the screws at the connection; Do lubrication treatment.
Load	Whether the output current of the drive is higher than the rated value of the motor and it runs for a certain period of time.	Check if the drive is overloaded; Confirm whether the settings of the motor parameters are correct.
Cooling system	Whether there is abnormal heating and discoloration of the drive and motor.	Check if the drive is overloaded; Tighten the screws; Check whether the heat sink of the drive and the motor are dirty.
	Whether the cooling fan is working properly.	Check whether the fan is blocked or damaged.

◆Regular inspection

Under normal circumstances, a regular inspection is performed every 3 months to 4 months, but it needs to be combined with the usage and working environment to consider shortening the inspection cycle. Make relevant confirmations and make valid records during the inspection.



CAUTION

Do not perform wiring, inspection or repair work while the power is on. Before starting work, be sure to switch off the power of all machines. After the power is switched off, there is still residual voltage in the capacitor inside the drive. It is necessary to confirm that the main circuit voltage has fallen to a safe level, and wait 15 minutes before performing related operations to avoid personal accidents.

Item	Content	Solution
Overall	Check the environment to see if there is any dirt or dust.	Confirm whether the relevant cabinet doors can be closed tightly; Clean dirt or dust and improve the operating environment.
	Whether there is any discoloration due to overheating and aging; Whether there is any damage, deformation, or abnormal operation of the device.	Replace related components; If it cannot be repaired, the entire AC drive needs to be replaced.
Electrical connections	● Check if the wires and connections are free of discoloration, broken insulation, cracks and signs of deterioration; ● Check if connection terminals are not worn, damaged, or loose; ● Grounding check.	● Replace damaged wires; ● Tighten loose terminals and replace damaged ones; ● Measure the grounding resistance and tighten the corresponding grounding terminals.
Mechanical connections	● Check for abnormal vibrations and noises, and for loose fixing.	● Tighten, lubricate, and replace defective parts.
Semiconductor devices	● Check for dirt and dust; ● Check for visible changes in appearance.	● Clean the operating environment; ● Replace the damaged parts.
Electrolytic capacitor	● Check for fluid leakage, discoloration, cracks, and exposed, extended, ruptured, or leaked valves.	● Replace the damaged parts.
Peripherals protection	● Check the appearance and insulation of peripheral equipment.	● Clean the environment and replace damaged parts.
Printed circuit board	● Check for odor, discoloration, and severe rust, and whether connectors are correct and reliable.	● Fasten connectors; ● Clean the printed circuit board; ● Replace the damaged printed circuit board.
Cooling system	● Check the cooling fan for damage and blockage; ● Check for dirt and dust on the heat sinks; ● Check that the air inlet and exhaust ports are not clogged or contaminated with foreign matter.	● Clean the operating environment; ● Replace the damaged parts.
Keypad	● Check the keypad for damage and blockage;	● Replace the damaged parts.
Motor	● Check whether the motor has abnormal vibration or sound.	● Tighten mechanical and electrical connections and lubricate mechanical parts.

**CAUTION**

Do not perform wiring work while the power is on, as there is a risk of death by electric shock. Before performing wiring, inspection, maintenance, etc., disconnect the power supply to all associated equipment and make sure that the DC voltage in the main circuit has dropped to a safe level for 15 minutes.

5.2 Maintenance

All equipment and components have a service life. Proper maintenance can ensure that the service life is extended, but it cannot solve the damage of the equipment and components. Please replace the devices that have reached or are about to reach the end of their service life as required.

Name	Life
Fan	≥5 years
Electrolytic capacitor	≥5 years
Printed circuit board	≥10 years



CAUTION

- Do not perform wiring, inspection or repair work while the power is on. Before starting work, be sure to switch off the power of all machines. After the power is switched off, there is still residual voltage in the capacitor inside the drive. It is necessary to confirm that the main circuit voltage has fallen to a safe level, and wait 15 minutes before performing related operations to avoid personal accidents.
- Under the following conditions, users can determine replacement cycles based on operating hours.
 - Environment: 40°C
 - Load ratio: 80%
 - Operation rate: 24 hours/day

5.3 Product Warranty

1. If the product malfunctions during the warranty period, please see the warranty terms in the warranty card for coverage.
2. Primary troubleshooting will be carried out by your company, but the service can be provided by VEICHI or service network for a fee at your request. If the cause of malfunction is found to be on VEICHI, the service will be free of charge according to mutual negotiation.
3. Liability exemption, the inconvenience caused to your company or your customers due to the failure of VEICHI products and the damage caused to the non-VEICHI products, regardless of whether they are within the warranty period, do not belong to VEICHI warranty.

6 STO Function

6.1 Standards

- Safety Standards

Table 6-1 Safety Standards

Item	Standards
Function safety	EN/ISO 13849-1: 2015 EN/IEC 61508: 2010, Parts 1-7 EN/IEC 62061: 2021 EN/IEC 61800-5-2: 2017
EMC	EN/IEC 61326-3-1: 2017

- Safety Performance

Table 6-2 Safety Performance

Item	Index
Safety Integrity Level (SIL)	SIL3
Probability of Failure Per Hour (PFH)	7.61×10^{-10} [1/h]
Performance Level (PL)	PLe/Cat.3
Mean Time to Failure (MTTFd)	High
Diagnostic Coverage (DC)	Medium
Service time	20
Task time	20
Hardware Fault Tolerance (HFT)	1
Application mode	High demand
Response time	5ms
Process safety time	25ms



CAUTION

To meet the requirements of SIL3/PLe/Cat.3, the AC drive must trigger the STO function at least once every three months for troubleshooting.

6.2 Installation



CAUTION

Designers and installers must be trained to understand the safety requirements related to their work.

6.2.1 Terminal Distribution and Definition

The STO function is integrated in the drive. See "[2 Installation](#)" for the distribution and definition of the input terminals.

6.2.2 Electrical Specifications and Connection

- Electrical Specification

Table 6-3 STO Input Signal Electrical Specifications

Item	Specification
Input voltage	24VDC($\pm 10\%$)
Input current	7mA (per channel)
Input impedance	4k Ω

- Logic Level

Table 6-4 STO Input Signals

Source	Status	Description
STO1	High level	Normal operation of the drive
	Low level	Trigger STO function
STO2	High level	Normal operation of the drive
	Low level	Trigger STO function

- Wiring Description

- Single drive

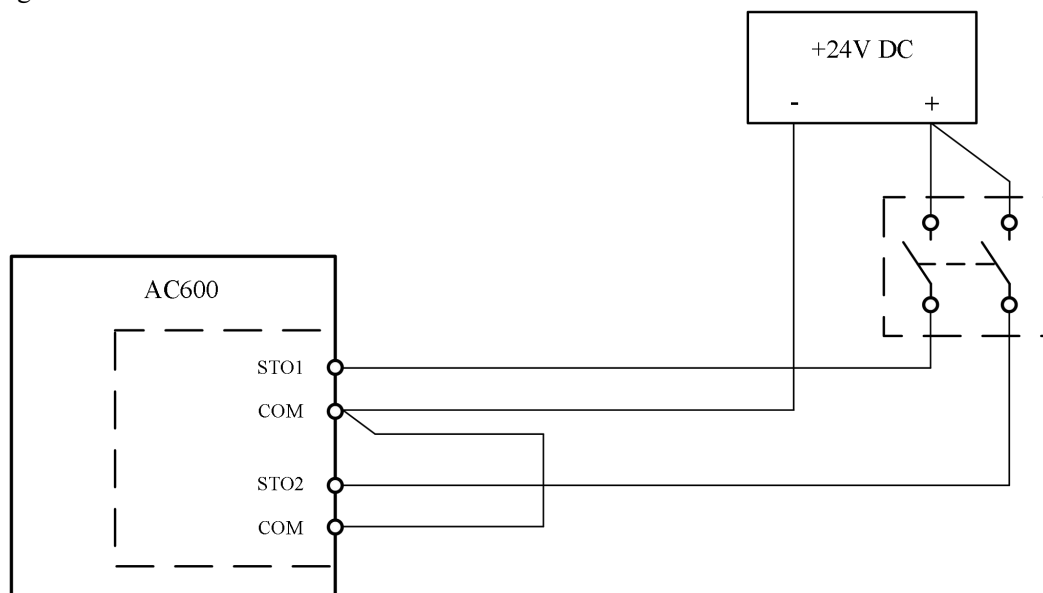


Figure 6-1 AC600 Series Drive STO Terminal Connection

■ Parallel drives

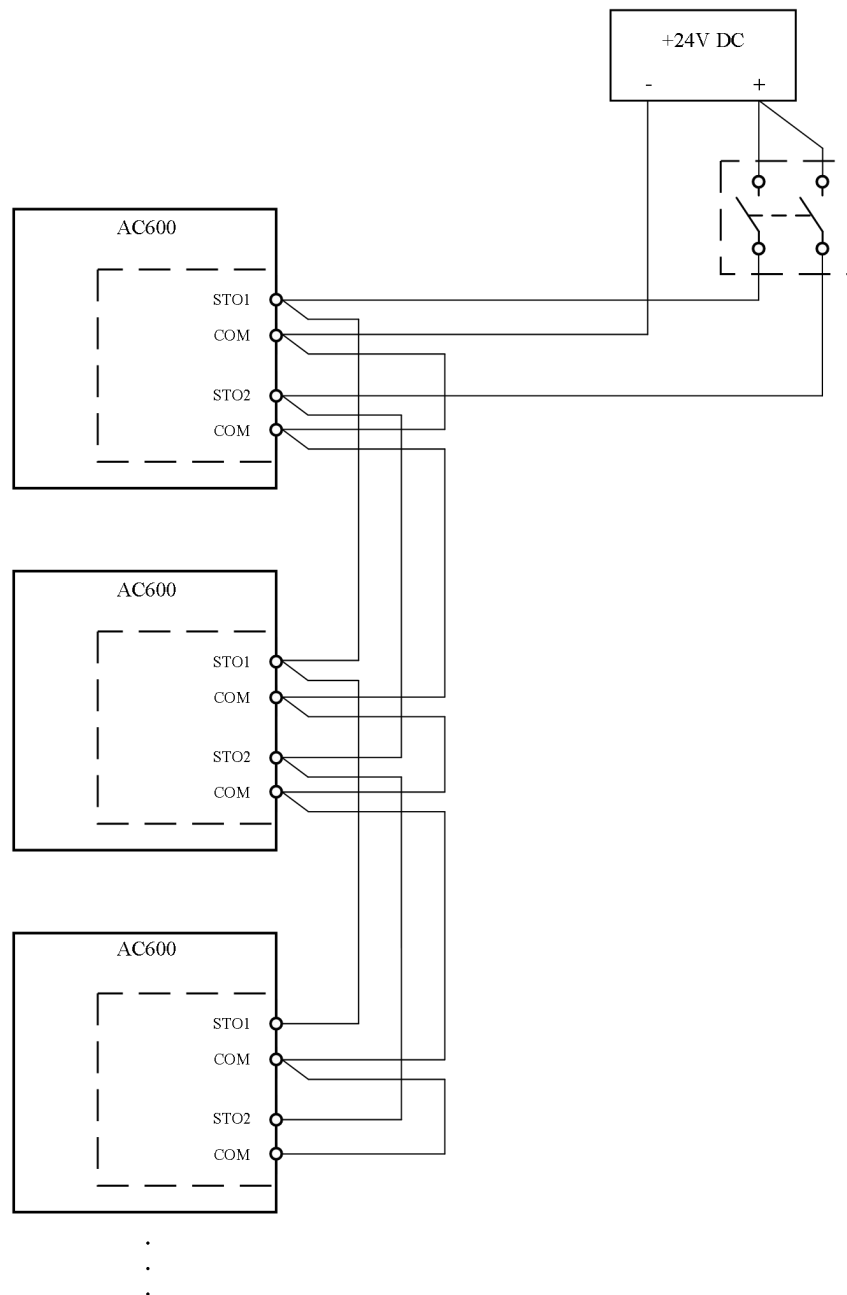


Figure 6-2 Parallel AC600 Series Drives STO Terminal Connection



CAUTION

The AC600 series drives support up to 2 parallel extensions. Configure the STO terminals on all drives and see the wiring diagram provided above.

● EMC requirements

To prevent short circuits between adjacent conductors, use a shielded cable connected to ground, with a max. length of 20m between the AC drive and the safety switch.

6.3 Commissioning and O&M Requirements

6.3.1 Basic Requirements

- Technicians shall be trained on safety system design and commission requirements and principles.
- Operating and maintenance staff shall be trained on safety system design and operation requirements and principles.
- Operators shall be trained on safety system design and operation requirements and principles.
- If safety circuits fail, replace the circuit board with a new one as it is not repairable.

6.3.2 Commission Steps and Acceptance Checklist

EN/IEC 61508, EN/IEC 62061, and EN/ISO 13849 standards require acceptance testing of safety functions at the following stages:

- Initial start-up;
- Post-changes (wiring, components, settings, etc.);
- Post-maintenance

Safety function acceptance testing should be conducted by related professionals, documented, and signed off by the tester. All staff, including technicians, operators, and maintenance personnel, must be trained in safety system design and operation requirements and principles.

The signed acceptance test report must be kept in the product's logbook, detailing start-up activities, test outcomes, fault reports, and resolutions. Any new tests due to changes or maintenance should also be logged.

Table 6-5 STO Test Steps and Acceptance Checklist

Step	Method	Result
1	Ensure the drive operates and stops normally during debugging	
2	Stop the drive by disconnecting the main input power and control power	
3	Check STO circuit wiring according to the manual	
4	Connect control and main power supply to the drive	
	Do not start the AC drive, and ensure that the motor is stopped	
	Connect STO1 and STO2 channels to a 24V power supply via a safety switch, setting to high level	
	Disconnect the safety switch, setting STO1 and STO2 both low level	
	Keypad displays “STO fault/ trigger, safe torque off”	
	Start the drive and ensure that the motor remains stopped	
	Reset the safety switch, setting STO1 and STO2 to high level, and manually clear the STO fault via the keypad	
	Start the drive, ensure the motor operates normally, then stop the drive and wait for the motor shaft to come to a complete stop	
5	Start the drive and ensure the motor operates normally	
	Disconnect the safety switch, setting STO1 and STO2 both low level	
	Keypad displays “STO fault/ trigger, safe torque off”	
	Ensure the drive stops output and the motor coasts to a stop, waiting for the motor shaft to come to a complete stop	
	Keep the safety switch disconnected and manually clear the STO fault via the keypad	

	Ensure the keypad still displays "STO fault/trigger, safe torque off," STO status cannot be restored	
	Start the drive and ensure that the motor remains stopped	
	Reset the safety switch, setting STO1 and STO2 to high level, and manually clear the STO fault via the keypad	
6	Record and sign the acceptance test report to certify that the STO function is normal and ready for operation	

6.4 Safety Function Monitoring

6.4.1 Safety Function Error Codes

Upon the STO function triggered or fails, the keypad will display the error name and code, see the table below for details.

Table 6-6 STO Function Error Codes

Code	Name	Subcode	Description
56	STOEN	00	Emergency stop error, can be reset
57	E.ST	01	Channel 1 error after two channel comparison
57		02	Channel 2 error after two channel comparison
58	E.STO	00	Reserved
		01	Channel 1 optocoupler error
		02	Channel 2 optocoupler error
		03	Channel 1 phase inverter error
		04	Channel 2 phase inverter error
		05	Channel 1 buffer error
		06	Channel 2 buffer error
		07	Reserved
		08	Reserved
		09	Power disconnection error
		10	Reserved
		11	Reserved
		12	MCU self-diagnostic error 0-CPU error
		13	MCU self-diagnosing error 1- RAM error
		14	MCU self-diagnosis error 2- Flash error
		15	MCU self-diagnosis error 3-Stack error

6.4.2 Safety Function Troubleshooting

Refer to the table for safety function failure solutions. If the issue persists, record the error code and contact VEICHI support.

Table 6-7 Error Causes and Solutions

Name	Cause	Solution
Safety torque off	STO is triggered, or the 24V STO power supply is not properly connected	Check that the safety switch is triggered, and the dual STO inputs are wired correctly
Hardware error	Hardware error in dual STO circuits detected	Replace the STO extension card and contact VEICHI support
Power error	Overvoltage or undervoltage in the STO power supply detected	Replace the STO extension card and contact VEICHI support
MCU error	MCU malfunction detected	Replace the STO extension card and contact VEICHI support

6.4.3 STO Reset



CAUTION

Before resetting STO, ensure the AC drive is returned to normal operation. Only the safety switch-triggered STO can be reset; for other errors, contact VEICHI support directly.

When the safety switch triggers STO, the AC drive stops. To resume normal operation, manually reset the STO via the keypad and follow these steps:

1. Reset the safety switch to reconnect the STO dual channels to the 24V supply. Ensure the AC drive system is ready for normal operation before proceeding.
2. Disconnect and reconnect the power supply to release the STO status.

6.5 Precautions

Read the safety precautions, risk assessments, and limitations to ensure proper understanding and application of safety features.



CAUTION

Expertise is essential for designing safety systems. For overall control system safety, adhere to established safety principles throughout the design. While an individual sub-system with the STO function, though designed for safety-related purposes, doesn't ensure complete system safety.

6.5.1 Safety Measures

When using this function, please read and follow these key precautions:

- The STO function is not an alternative for the emergency stop. It cannot disconnect power or de-energize the motor and AC drive's high-voltage components without extra safety measures, which may lead to electric shock hazards. Therefore, perform maintenance only after disconnecting the drive from the main power supply.
- STO can be integrated into an emergency stop system, adhering to specific application standards and needs. However, it is used for specialized safety control to prevent hazards, not for emergency stopping.
- The emergency stop function allows operators to quickly halt devices when they spot unexpected dangers, preventing accidents.
- The emergency stop design differs from safety interlocks, often requiring independence from complex or smart controls. It might employ a basic electromechanical device to cut power or achieve a quick and controlled stop through methods like dynamic or regenerative braking.
- The STO function can stop the AC drive in emergencies, but it relies on motor inertia for a gradual stop. If immediate cessation is needed, opt for other rapid stop methods instead of STO.

6.5.2 Risk Assessment

- Conduct a preliminary risk assessment for the drive system when using STO to ensure SIL standards are met.
- Even with the safety function active, residual risks may exist. Always consider safety during risk assessments.
- External forces (like gravity on a vertical axis) can cause motor running during safety function operation. Use a mechanical brake to secure the motor.
- In the event of a drive failure, the motor can operate within a 180-degree range to ensure safety in hazardous conditions.

7 FBD Function

7.1 Free Programming

This section introduces the free module functionality in FBD visual programming for the lower machine, designed to support user secondary development tailored to specific practical scenarios. We offer 10 free modules, each equipped with 38 application functions, featuring 3 inputs, 1 output, and 1 module status. These inputs, outputs, and statuses are integrated and displayed in the upper machine's visual programming module via U07 connectors. Module enablement is contingent upon the effectiveness of its application function; if the function is ineffective, the module's functionality is also rendered invalid.

The status values of all free modules are indicated in the connector parameter U07.80, with bits 0 to 9 representing the status of the 10 modules, enabling the simultaneous monitoring of multiple module statuses. Additionally, module statuses can be visually identified by the module turning red within the visualization programming module.

For instance, if U07.80 reads 51, which is binary 0011 0011, it indicates that bits 0, 1, 4, and 5 are set to 1. This means modules 1, 2, 5, and 6 have a status of 1, signifying internal operational errors in these four modules. Consequently, these four modules will appear in red in the upper machine's visualization programming interface.

A module status of 1 or a red color signifies:

1. Illegal module input: Inputs are not binary during logical operations (i.e., values are neither 0 nor 1); error codes and subcodes exceed limits.
2. Module configuration errors: Involving logical operations, limiting functions, logical delays, level-to-pulse functions, ramp processing, reset functions, and switch functions.
3. Data overflow: Occurs during multiplication operations when the module's internal 32-bit variables overflow.
4. Division by zero: The divisor (module inputs 2 and 3) is 0 during division operations.
5. Negative radicand: The radicand is less than 0 during square root operations.

Note: Detailed descriptions of free module application functions are provided in the appendix.

7.2 Connector

To facilitate secondary development based on the existing functionality of the drive, the system incorporates a set of free modules and connector parameters. Connectors orderly arrange system parameters through specific parameter function codes (U group) and provide corresponding addresses for external access, including the inputs and outputs of free modules.

Activation of the free module and connector functionality requires enabling the connector in F00.10; if not enabled, both free modules and connector functions are inactive.

A brief description of the connector parameters is as follows:

1. Free modules can select connector monitoring parameters as module inputs, and the F group can use them as signal source inputs.
2. Connectors follow the group C parameter definition method and are read-only.
3. Connectors are categorized into word and bit types, with U0-U2 being bit connectors, U3-U6 being word connectors, and U7 being a dual-word connector; both word connectors are universally applicable.
4. Connector parameters are only available for free programming on the upper machine.
5. Connector parameters are displayed as int32, while all other parameters are Uint16. Connector parameters are used for monitoring free module inputs, outputs, and statuses. They can be packed as int32 variables for calling when selected by free modules and internally (F group) based on high and low addresses.

System internal call of connector parameters:

- F01.01: The running command channel function code uses bit connectors to perform complex logical operations for running commands.
- F01.02, F01.04, F01.11, F04.20, F04.21, F08.01, F08.11, F13.00, F13.03, F15.01, F15.02, F15.12, F15.13, and other function codes use word connectors to achieve advanced functionalities based on the existing features.

Appendix I: Modbus Communication Protocol

Communication frame structure

The communication data format is as follows:

Composition of bytes: Start bit, 8 data bits, parity bit and stop bit.

Start bit	Bit1	Bit2	Bit3	Bit4	Bit5	Bit6	Bit7	Bit8	Parity bit	Stop bit
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The information of a frame must be transmitted in one continuous data stream, and if it is longer than 1.5 bytes of interval before the end of transmission of the entire frame, the receiving device will clear this incomplete information and incorrectly assume that the subsequent byte is the address field of the next new frame. Similarly, if the start of a new frame is shorter than a 3.5-byte interval from the previous frame, the receiving device will consider it to be the sequent part of the previous frame. The final CRC parity will be incorrect due to the misalignment of the frame, resulting in a communication error.

Communication control parameter group address description

Address	Name	R/W	Scale (Range)	Content
0x3000	Given Frequency	R/W	0.01Hz (0.00Hz~320.00Hz)	Frequency given via communication.
0x3001	Command	W	0 (0~259)	0: No command/ 1: FWD/ 2: REV/ 3: FWD jogging/ 4: REV jogging/ 5: DEC stop/ 6: Free stop/ 7: Error reset/ 8: Operation disable/ 9: Operation allow/ 257: Dynamic auto-tuning/ 258: Static auto-tuning/ 259: Stator resistance auto-tuning
0x3002	Drive Status	R	Binary	Bit0: 0—Stop; 1—Operation Bit1: 0—Non-acceleration; 1—Acceleration Bit2: 0—Non-deceleration; 1—Deceleration Bit3: 0: Forward; 1: Reverse Bit4: 0—Normal AC drive; 1—Faulty Bit5: 0—Unlocked; 1—Locked Bit6: 0—No warning; 1—Warning Bit7: 0—Operation enable; 1—Operation disable
0x3003	Drive Error Code	R	0 (0~65535)	Read the corresponding value of the error code via communication.
0x3004	Upper Limit Frequency	R/W	0.01Hz (0.00Hz~500.00Hz)	Upper limit frequency given via communication.
0x3005	Torque	R/W	0.0% (0.0%~100.0%)	Torque setting via communication.
0x3006	Torque-controlled FWD Speed Limit	R/W	0.0% (0.0%~100.0%)	Torque-controlled FWD speed limit given via communication.
0x3007	Torque-controlled REV Speed Limit	R/W	0.0% (0.0%~100.0%)	Torque-controlled REV speed limit given via communication.
0x3008	PID Setting	R/W	0.0% (0.0%~100.0%)	PID setting given by communication.
0x3009	PID Feedback	R/W	0.0% (0.0%~100.0%)	PID feedback given by communication.

0x300A	V/F-SPLIT Voltage	R/W	0.0% (0.0%~100.0%)	Frequency conversion-specific power supply application parameters.
0x300B	Tension	R/W	0 (0~Max. tension)	Tension-specific unit application parameters
0x300C	Roll Diameter	R/W	0.0 (0.0~Max. roll diameter)	Tension-specific unit application parameters
0x300D	Linear Speed	R/W	20.0 (0.0~Max. linear speed)	Tension-specific unit application parameters
0x300E	ACC Time 1	R/W	6.00s (0.00s~650.00s)	Read and write F01.22.
0x300F	DEC Time 1	R/W	6.00s (0.00s~650.00s)	Read and write F01.23.
0x3010	Error/Alarm Code	R	0 (0~65535)	1~127: Error code, 128~159: alarm code, 0 means no error.
0x3011	Active Current from Communication	R	0.00A (0.00A~400.00A)	Belt-specific unit application parameters
0x3012	Torque Filter Time	R/W	0.000s (0.000s~6.000s)	Read and write F15.09.
0x3013	PID Tension Feedback	R/W	0.0 (0.0~100.0)	PID tension feedback.
0x3014	Motoring Torque Limit	R/W	0.0 (0.0~400.0)	Motoring torque limit given by communication.
0x3015	Generating Torque Limit	R/W	0.0 (0.0~400.0)	Use with extension cards.
0x3016	Special Command Record	R/W	0 (0~1024)	Record special command.
0x3018	Terminal Output	W	Binary	Output terminal function, set F6.21~F06.24 to 30 [Communication Control Output]. Bit0: Y terminal Bit1: Relay Bit2: Extension Y1 Bit3: Extension relay
0x3019	AO1	W	0 (0~19)	F08.01=18 [AO Function]= Given via RS485 communication.
0x301A	AO2	W	0 (0~19)	F08.11=18 [Extension AO Function]= Given via RS485 communication.
0x301B	AI1	R/W	0 (0~1)	Set F07.00 for voltage and current input. F07.00 Set to "0" for voltage input and set to "1" for current input.
0x301C	AI2	R/W	0 (0~1)	Set F07.01 for voltage and current input. F07.01 Set to "0" for voltage input and set to "1" for current input.
0x301E	Frequency Percentage	R/W	0.00% (0.00%~100.00%)	Write frequency percentage
0x3020	Current Error Count	READ	0 (0~65535)	Display the drive current error count.
0x3021	Current Error 1 Info	READ	0 (0~65535)	Display the diagnostic information of drive current error 1.
0x3022	Current Error 2 Info	READ	0 (0~65535)	Display the diagnostic information of drive current error 2.
0x3023	Current Error 3	READ	0	Display the diagnostic information of drive

	Info		(0~65535)	current error 3.
0x3024	Current Alarm 1 Info	READ	0 (0~65535)	Display the diagnostic information of drive current alarm 1.
0x3025	Current Alarm 2 Info	READ	0 (0~65535)	Display the diagnostic information of drive current alarm 2.
0x3026	Current Alarm 3 Info	READ	0 (0~65535)	Display the diagnostic information of drive current alarm 3.

Description

Note: Other function code addresses are listed in the "Address" column of the function code table.

- When the write command (06H) is used to write parameters, if the high bit of the low half-byte of the address field is 0, it will be written into the RAM of drive only, and will not be stored during power down; if it is 1, then it will be written into EEPROM, that is to say, it will be stored during power down. For example, Fxx.02: 0xXX02 (write to RAM) and 0xXX82 (stored in EEPROM).
- The AC600 supports commands 0x03, 0x06, 0x08, and 0x10, with a maximum of 100 bytes for consecutive reads and a maximum of 5 bytes for consecutive writes.

● Meaning of error codes of the

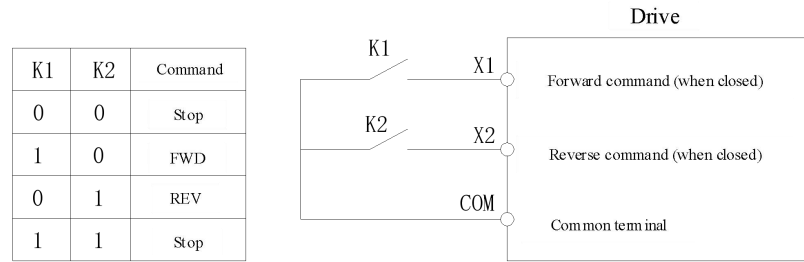
abnormal response messages from slave

Error Code	Description	Error Code	Description	Error Code	Description
1	Command code error	3	CRC parity error	4	Illegal address
5	Illegal data	6	Parameters not for modification during operation	8	Drive busy (saving to EEPROM)
9	Parameter over range	10	Reserved parameters not for modification	11	Error in reading parameter bytes

Appendix II: Terminal Wiring Methods

0: Two-wire Control 1

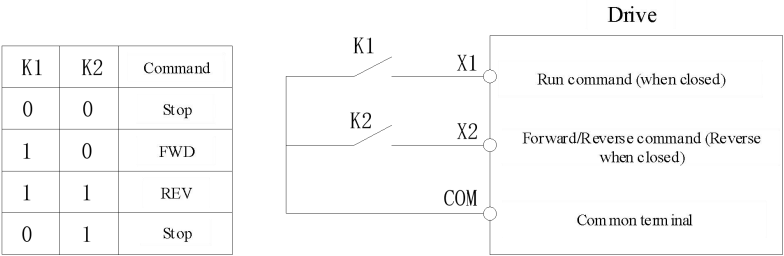
Operation and direction are set at the same time. Two-wire mode is most commonly used in this mode. The factory default is that the X1(FWD operation) and X2(REV operation) terminal control the motor to run forward and reverse. This is shown in the figure below:



0: Diagram of Two-wire Control 1

1: Two-wire control 2

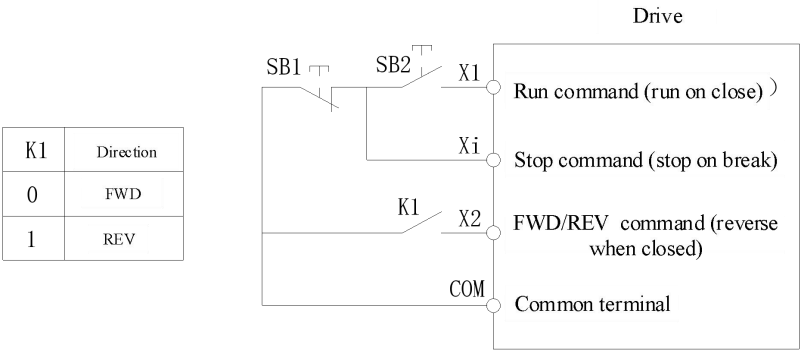
Operation and direction are separated. X1 (FWD operation) in this mode is used to enable motor operation. The direction is defined by the status of the X2 terminal (REV operation). This is shown in the figure below:



1: Diagram of Two-wire Control 2

2: Three-wire Control 1

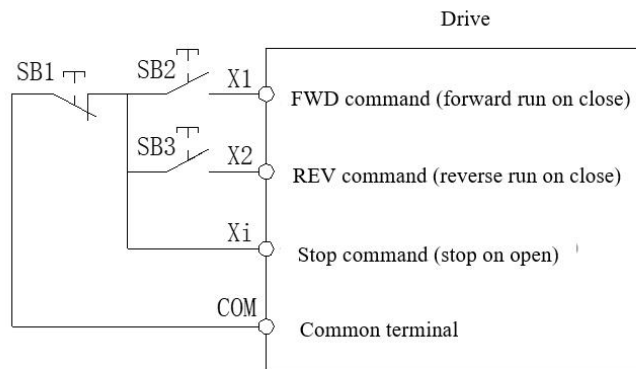
The three-wire control terminal(Xi) of this mode is for stop and the operation command is generated by X1(FWD operation) and the direction is controlled by X2(REV operation). Input via the terminal(Xi) in the three-wire control mode is valid.



2: Diagram of Three-wire Control 1

3: Three-wire Control 2

The three-wire control terminal (Xi) of this mode is designated for stopping. The operation command is generated by X1 (FWD operation) or X2 (REV operation), with both terminals governing the direction of operation.



3: Diagram of Three-wire Control 2

Note: SB1: Stop; SB2: FWD operation; SB3: REV operation; "Xi" is a multifunction input terminal set to "3" [3-line control(Xi)].

Version Change Log

Date	Version	Content
2024.12	V1.0	First version issued