

TBR Series - High Speed and Precision



Performance Data

The TBR series reducer adopts a standardized flange interface. The installation is convenient and quick. Due to its integral structure design, this high-precision model can operate excellently in many demanding working application.

TBR180	One Stage														Two Stage																	
	Speed Ratio	i	3	4	5	6	7	8	9	10	12	14	16	20	25	30	35	40	50	60	70	80	100	120	140	160	180	200				
Nominal Output Torque	T_1	Nm	590	1040	1200	1103	1100	1000	-	910	1123	1100	1000	910	200	1103	1100	1000	1200	1103	1100	1000	910	1103	1100	1000	910	1103	1100	1000	-	910
Emergency Stop Torque	T_2	Nm	$T_1 \times 3$														$T_1 \times 3$															
Nominal Input Speed	S_1	rpm	3000														3000															
Maximum Input Speed	S_2	rpm	6000														6000															
Maximum Output Torque	T_e	Nm	$T_1 \times 3 \times 60\%$														$T_1 \times 3 \times 60\%$															
Maximum Radial Force	F_r	N	14500														14500															
Maximum Axial Force	F_a	N	7250														7250															
Torsional Rigidity	-	Nm/arcmin	145														145															
Efficiency	η	%	≥ 95														≥ 92															
Service Life	-	h	20000														20000															
Noise	-	dB	≤ 72														≤ 72															
Weight	-	Kg	46.5														43															
Backlash	P0		≤ 2														≤ 4															
	P1	arcmin	≤ 4														≤ 7															
	P2		≤ 6														≤ 9															
Operating Temperature	-	$^{\circ}\text{C}$	-20-90														-20-90															
Lubrication	-		Synthetic Grease														Synthetic Grease															
Protection Class	-		IP65														IP65															
Mounting Position	-		Any Direction														Any Direction															
Moment of Inertia	J	kg.cm ²	68.9							65.6							23.4							21.8								

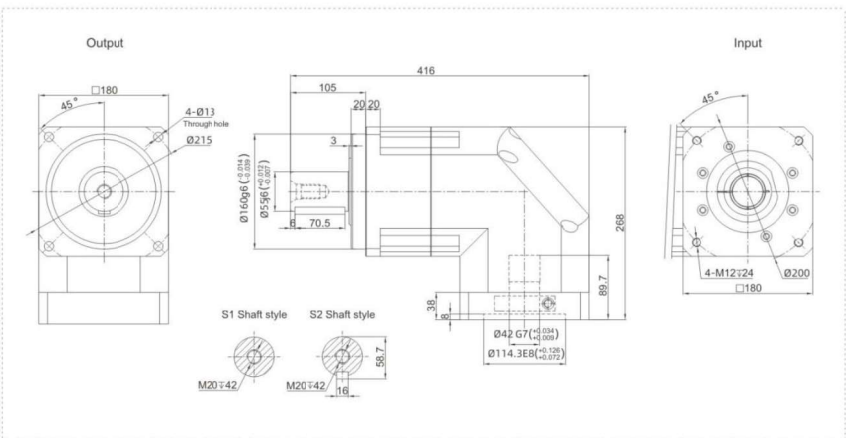
Notes:

- Speed ratio ($i = \text{Sin}/\text{Sout}$)
- When the output speed is 100 rpm, it acts on the center of the output shaft.
- For Continuous operation, the service life is no less than 10,000 hours.
- The noise value was measured based on the input rotational speed of 3000 rpm, $i=10$.

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.

TBR180 Series

TBR180 One Stage



TBR180 Two Stage

