

TCB Series - Optimization of Performance and Cost



Performance Data

TCB series planetary reducer has modular design compact structure with high reliability and efficiency. It is a perfect optimization of both performance and cost.

TCB060		One Stage														Two Stage										
Speed Ratio	i	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80	100						
Nominal Output Torque	T_1	Nm	40	45	55	50	45	45	-	35	40	45	55	50	45	45	55	50	45	45	35					
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_a	Nm	$T_1 \times 3 \times 60\%$														$T_1 \times 3 \times 60\%$									
Maximum Radial Force	F_r	N	1530														1530									
Maximum Axial Force	F_b	N	765														765									
Torsional Rigidity	-	Nm/arcmin	7														7									
Efficiency	η	%	≥ 97														≥ 94									
Service Life	-	h	20000														20000									
Noise	-	dB	≤ 58														≤ 58									
Weight	-	Kg	1.3														1.7									
Backlash	P0		-														-									
	P1	arcmin	≤ 3														≤ 5									
	P2		≤ 5														≤ 7									
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	$\text{kg}\cdot\text{cm}^2$	0.16	0.14																	0.13					

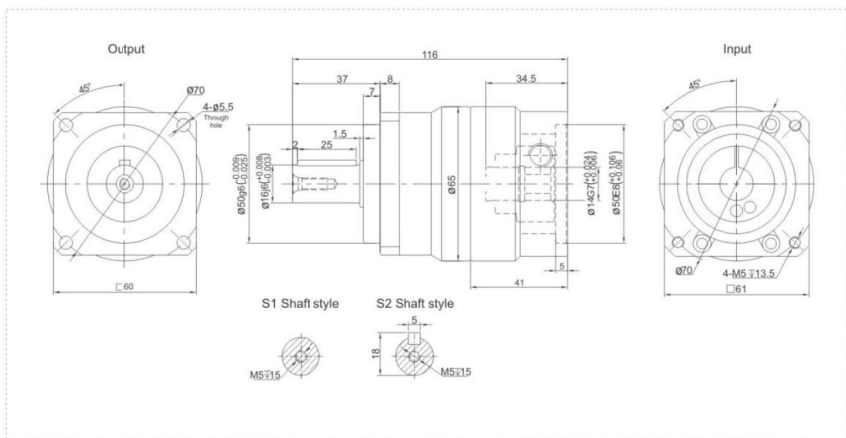
Notes:

- 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.

TCB060 Series

TCB060 One Stage



TCB060 Two Stage

