

TSL-BLDC-WK3510

Outer Rotor Frameless Torque Motor



Rated Voltage 12 V	Rated Speed 363 RPM	TSL-BLDC-WK3510CP-9 Size Ø40 × 13.7 mm	TSL-BLDC-WK3510CH-9 Size Ø38.4 × 13 mm
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1. Electrical and Mechanical Parameters

Parameter	Unit	TSL-BLDC-WK3510CP-9	TSL-BLDC-WK3510CH-9
Rated Voltage	V	12	12
Rated Current	A	0.53	0.53
Rated Torque	N.m	0.11	0.06
Rated Speed	RPM	363	363
Peak Speed	RPM	965	965
Peak Torque	N.m	0.16	0.08
Peak Current	A	0.80	0.80
Winding Turns of Motor	T	40	40
Interphase Resistance	Ω	8.53	8.53
Interphase Inductance	mH	1.90	1.90
Speed Constant	rpm/V	80	80
Torque Constant	N.m/A	0.20	0.10
Rotor Inertia	g.cm ²	76.00	33.00
Number of Pole Pairs	Pairs	11.00	11.00
Motor Weight	g	47	36
Working Temperature	°C	-20 to 80	-20 to 80
Peak Demagnetization Temperature	°C	120	120
Stator Inner Diameter	mm	22	22
Motor Size	mm	Ø40 × 13.7	Ø38.4 × 13

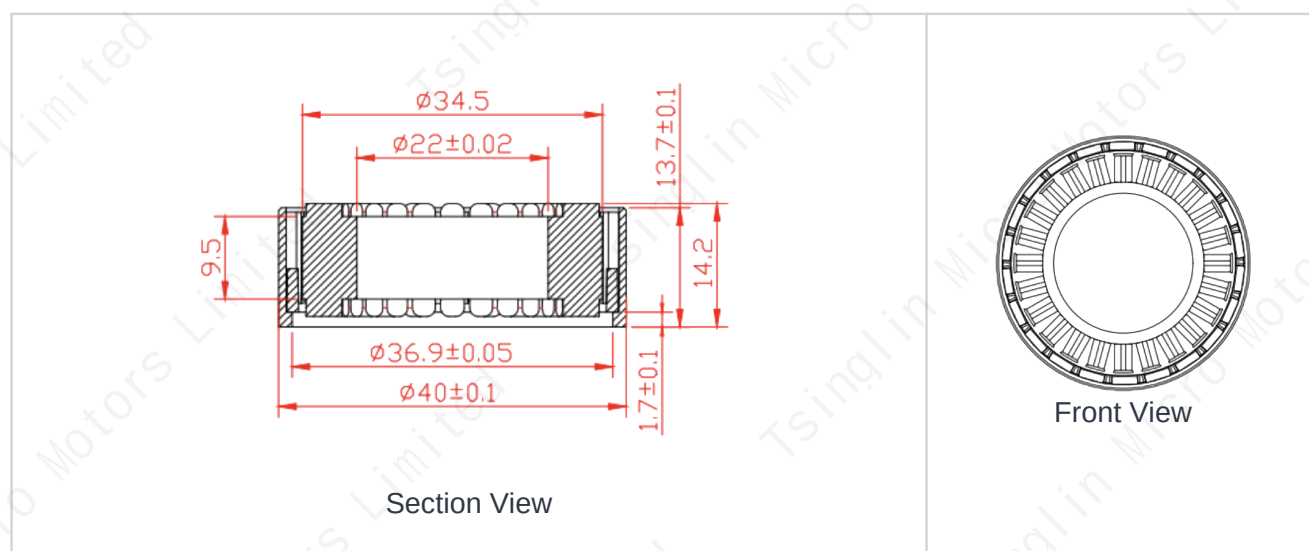
The above parameters are for reference only and can be customized according to customer requirements.

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2. Magnetic Plate Version - Dimension Drawing

All dimensions are in millimeters unless otherwise specified.



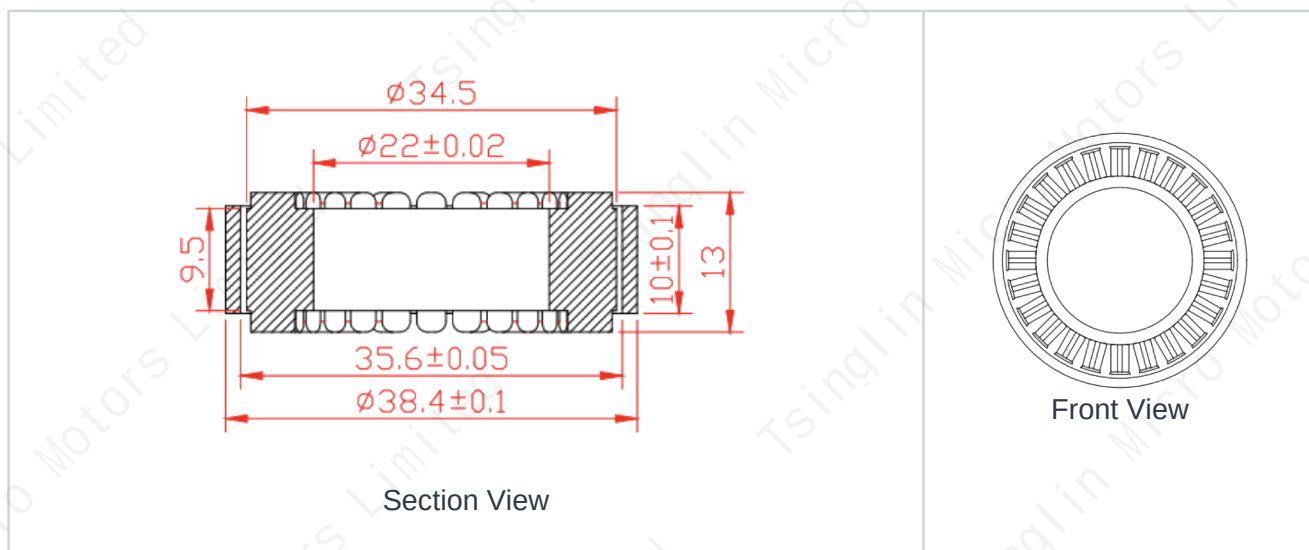
Drawing	TSL-BLDC-WK3510 Magnetic Plate Version
Version	V1.0
Updated	2025-07-10

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3. Magnetic Ring Version - Dimension Drawing

All dimensions are in millimeters unless otherwise specified.



Drawing	TSL-BLDC-WK3510 Magnetic Ring Version
Version	V1.0
Updated	2025-07-10