

TSL-BLDC-WKU25 Series

Inner Rotor Frameless Torque Motor | Potted Version



Rated Voltage 24 V	Rated Speed 6,000 RPM	Outer Diameter 25 mm	Series TSL-BLDC-U25
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1. Electrical and Mechanical Parameters

Parameter	Unit	TSL-BLDC-WKU2510	TSL-BLDC-WKU2515	TSL-BLDC-WKU2523
Voltage	VDC	24	24	24
Rated Output Power	W	15.7	31.4	47.1
Rated Torque	N.m	0.025	0.05	0.075
Instant Max Torque	N.m	0.075	0.15	0.225
Rated Current	A	2	2.1	2.3
Instant Max Current	A	6	6.3	9
Rated Speed	rpm	6000	6000	6000
Max Speed	rpm	8000	8000	8000
Torque Constant	N.m/A	0.0125	0.024	0.025
Rotor Inertia	kg.cm ²	0.002	0.003	0.006
Back EMF Constant	V/Krpm	0.85	1.4	1.6
Line Resistance	Ω	0.72	0.94	0.5
Line Inductance	mH	0.13	0.21	0.16
Number of Pole Pairs	Pairs	7	7	7
Motor Weight	kg	0.02	0.03	0.06
Cogging Torque	mN.m	0.45 (Ref.)	0.9 (Ref.)	1.35 (Ref.)
L1 Core Height	mm	6.3	10.5	18.5
L2 Rotor Height	mm	7.3	11.5	19.5
L3 Overall Height	mm	10.9	15.3	23.7

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

