

Motor Specification



Product image shown for reference.

Product Overview

Series: TSL-BLDC-3025 Brushless DC Motor

Reference Models: TSL3025N-01A / TSL3025N-02A

Rated Voltage: 7.4 V / 12.0 V

Operating Range: 5.0-9.0 V / 9.0-16.0 V

No-Load Speed: 3178 r/min / 4219 r/min

Motor Diameter: Ø30.5 mm

Connection: 5-pin lead connector

- Compact 30.5 mm brushless DC motor with an integrated control PCB.
- 7.4 V and 12 V reference versions are available.
- Three-point M3 mounting interface and 5-pin lead connection.

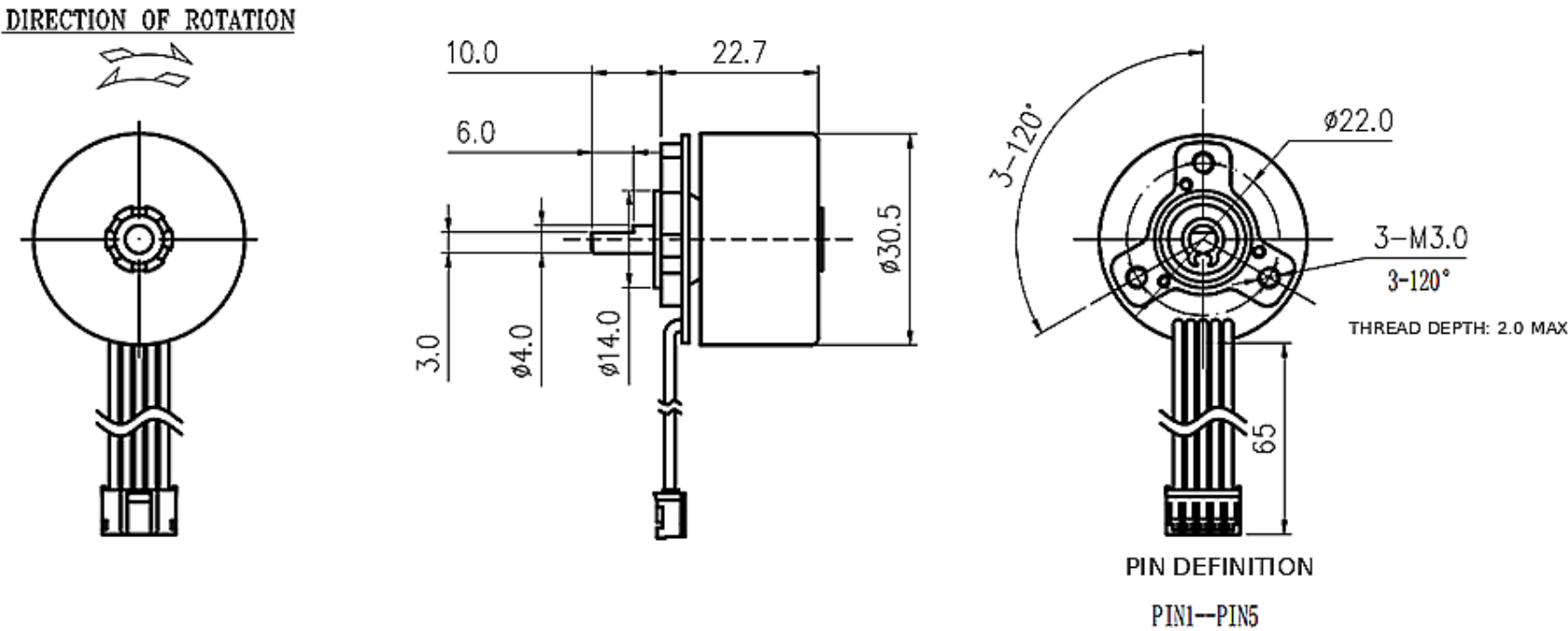
Motor Type	Permanent-Magnet Brushless DC Motor	Control	Integrated electronic control board
Application	Compact equipment / customized use	Unit System	SI and gf.cm

Performance Specifications

Parameter	TSL-BLDC-3025-01A	TSL-BLDC-3025-02A
Operating Voltage Range	5.0-9.0 V	9.0-16.0 V
Rated Voltage	7.4 V	12.0 V
No-Load Speed	3178 r/min	4219 r/min
No-Load Current	0.19 A	0.10 A
Typical Load Speed	2270 r/min	3628 r/min
Typical Load Current	0.5 A	0.7 A
Typical Load Torque	100 gf.cm	200 gf.cm
Typical Load Torque	9.81 mN.m	19.6 mN.m
Typical Load Output Power	2.84 W	7.44 W
Stall Torque	778 gf.cm	1800 gf.cm
Stall Torque	76.3 mN.m	176.5 mN.m
Stall Current	3.1 A	3.0 A

Specifications are compiled from the supplied reference data and may vary with winding, load, temperature, and tolerance.

Outline Dimensions



Motor Diameter	Body Length	Shaft Extension	Shaft Diameter	Pilot Diameter
$\varnothing 30.5$ mm	22.7 mm	6.0 mm	$\varnothing 4.0$ mm	$\varnothing 14.0$ mm
Mounting PCD	Mounting Holes	Thread Depth	Lead Length	Connector
$\varnothing 22.0$ mm	3-M3.0 / 120°	2.0 mm max	65 mm	5-pin / PIN1-PIN5

This page reproduces the supplied reference drawing with English annotations. Verify critical dimensions and tolerances before production.