

Motor Specification



Product image shown for reference.

Product Overview

Series:	TSL-BLDC-3523 Brushless DC Motor
Reference Models:	TSL3523N-01A / TSL3523N-02A
Rated Voltage:	7.4 V / 12.0 V
No-Load Speed:	3200 r/min / 3000 r/min
Motor Diameter:	Ø34.5 mm
Integrated Driver:	Yes
Connection:	5-pin lead connector
Rotation:	CW / CCW

- Compact 34.5 mm brushless DC motor with an integrated electronic driver.
- 7.4 V and 12.0 V reference versions are available.
- Three-point M4 mounting interface and 5-pin lead connection.

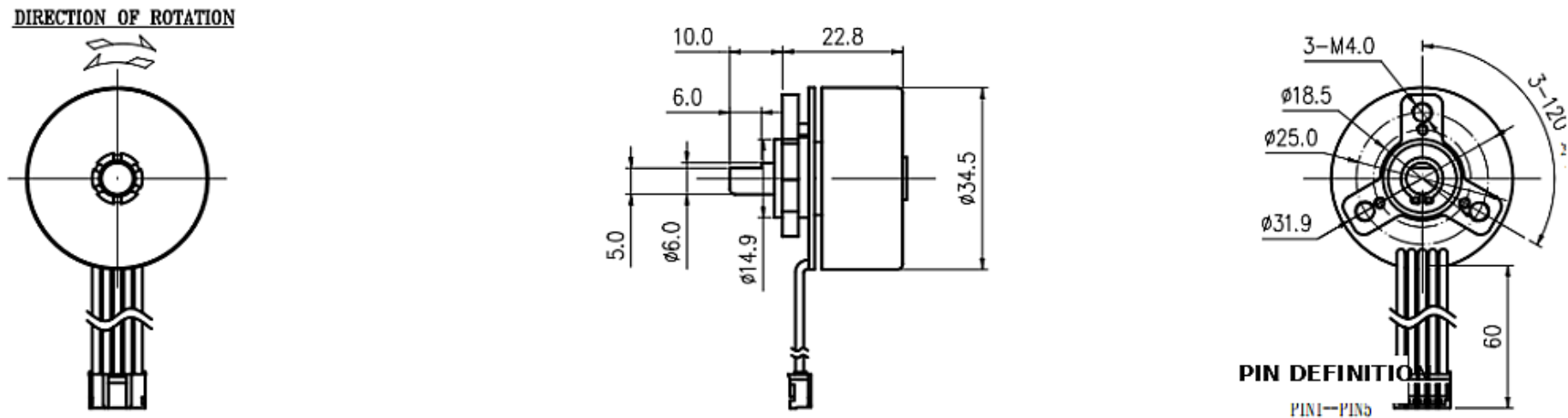
Motor Type	Permanent-Magnet Brushless DC Motor	Control	Integrated electronic driver
Application	Compact equipment / customized use	Unit System	SI and g.cm

Performance Specifications

Parameter	TSL3523N-01A	TSL3523N-02A
Rated Voltage	7.4 V	12.0 V
No-Load Speed	3200 r/min	3000 r/min
No-Load Current	0.18 A	0.11 A
Typical Load Speed	2740 r/min	2630 r/min
Typical Load Current	1.1 A	0.78 A
Typical Load Torque	230 g.cm	300 g.cm
Typical Load Torque	22.5 mN.m	29.4 mN.m
Typical Load Output Power	6.6 W	8.1 W
Stall Torque	1600 g.cm	2400 g.cm
Stall Torque	156.8 mN.m	235.3 mN.m
Stall Current	6.8 A	5.8 A

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

Outline Dimensions



Shaft Extension	Overall Length	Motor Diameter	Body Length	Shaft Diameter	Mounting
10.0 mm	32.8 mm	Ø34.5 mm	22.8 mm	Ø6.0 mm	3-M4.0

This page reproduces the supplied reference drawing with English annotations. Verify critical dimensions and tolerances before production.
The drawing identifies a 5-pin connector but does not provide individual pin functions; confirm the pin assignment separately.