

ENGLISH

Datasheet

RS Pro Brushless DC Motor, 24 V dc, 0.25 Nm, 5260 rpm, 4mm Shaft Diameter

RS Stock No: 892-8767



Product Details

RS Pro brushless DC motor is the perfect solution for many applications due to their compact, flat design which is 45 mm diameter and a length less than 30 mm. It operates at a voltage rating of 24 V dc. The permanent magnets are located on the external rotor that rotates around the internal stator with the windings. In addition to the shorter design, the advantage of this construction compared to internal rotor motors comes from having the same output with lower torque ripple due to the rotor's higher moment of inertia.

Features and Benefits

- Shaft diameter of 4 mm
- Class B insulation
- Hall effect sensors with 120° electrical angle
- Supply voltage of 24 V dc
- 5260 rpm output speed
- Brushless technology
- · Current rating of 7 A
- 0.25 Nm maximum output torque



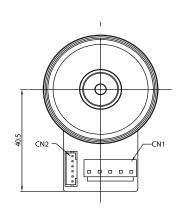
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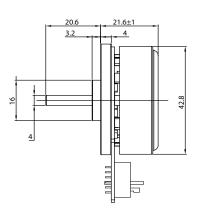
Specifications:

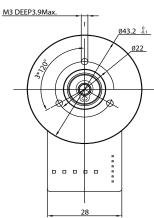
Core Construction	Permanent Magnet
DC Motor Type	Brushless
Standards Met	CE; RoHS Compliant
Length	21 mm
Shaft Diameter	4 mm
Current Rating	7 A
Dimensions	42.8 (dia.) x 21 mm
Maximum Output Torque	0.084 Nm
Output Speed	5260 rpm
Supply Voltage	24 V dc
Peak Current	7 A
Peak Torque	0.25 Nm



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CE

Specification

	Model		8928767	
1	N° OF POLE		16	
2	N° OF PHASE		3	
3	RATED VOLTAGE	V	24	
4	RATED SPEED	RPM	5260	
5	RATED TORQUE	Νм	0,084	
6	Max Peak Torque	Νм	0,25	
7	TORQUE CONSTANT	Nм/A	0,033	
8	LINE TO LINE RESISTANCE	Ω	0,9	
9	LINE TO LINE INDUCTANCE	мН	0,425	
10	Max Peak Current	Α	7	
11	LENGTH	MM	21	
12	Rotor Inertia	G-CM ²	135	
13	WEIGHT	Kg	0,12	

Characteristics

HALL EFFECT ANGLE
120 ° ELECTRIC ANGLE
SHAFT RUN OUT
0,03 mm
INSULATION CLASS
B
RADIAL PLAY
0,02 MM (450 G LOAD)
O;OZ IVIIVI (430 G LOAD)
AXIAI PIAY
70071 1 1 1 1 1
0,08 MM (450 G LOAD)
MAX RADIAL FORCE
28N 10mm from flange
MAX AXIAL FORCE
10N
DIELECTRIC STRENGTH
500 VDC FOR ONE MINUTE
Insulation Resistance
100 M OHM MIN. 500 VDC

Connection

PIN N°	CONNECTOR	FUNCTION
1	JST B5P	GND
2	JST B5P	PHASE U
3	JST B5P	PHASE V
4	JST B5P	PHASE W
5	JST B5P	GND
1	JST B6B	GND
2	JST B6B	.+ 5V DC
3	JST B6B	HALL A
4	JST B6B	HALL B
5	JST B6B	HALL C
6	JST B6B	GND