



# BRUSHLESS DC MOTOR

2 Wire  
8 Watt

2-48/08\_ \_ .2CW  
2-48/08\_ \_ .2CCW

TRIDENT ENGINEERING LIMITED  
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Berkshire, RG41 5AS

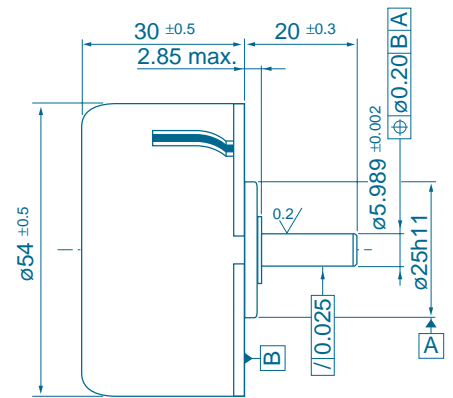
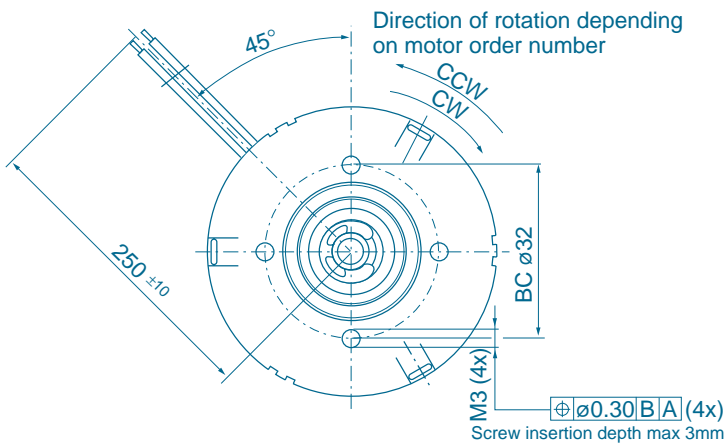
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Motor Data				Electrical Connections		
Nominal voltage	V	12	24	<b>Lead colour</b>	<b>Function</b>	<b>Size</b>
Voltage range	V	10 .. 15	14 .. 28	red	Supply voltage	AWG 24
Max. output power	1) W	8	8	blue	Ground	AWG 24
No load speed	rpm	4300	4300	<b>Features</b>		
No load current	mA	210	130	2-wire concept		
Min starting torque	mNm	32	34	Long life (up to 20,000 hours)		
Nominal torque	mNm	22	22	EMC compliance with standards EN 55011, EN 55022 and EN 50082-1 <sup>2)</sup>		
Nominal speed	rpm	2900	3000	Protected against wrong connection		
Nominal current	A	1.01	0.51	Protection class IP30		
Max. current limit	A	1.4	0.7	2) Capacitor of 1000µF (for 12V motor versions) or 470 µF (for 24V motor versions) needed at the supply terminals		
Max. continuous torque	1) mNm	27	28	<b>Options</b>		
Torque constant	mNm/A	28	56	Special shafts, diameter 3 ... 6mm		
Rotor inertia	kgm <sup>2</sup>	22x10 <sup>-6</sup>	22x10 <sup>-6</sup>	4-wire versions with an extra lead for Frequency Generator output and a lead for speed adjustment (PWM control of motor voltage)		
Mechanical time constant	ms	48	48	Direction of rotation pre-set (internal)		
Max. flange temperature	1) °C	85	85	Square foot mounting flange		

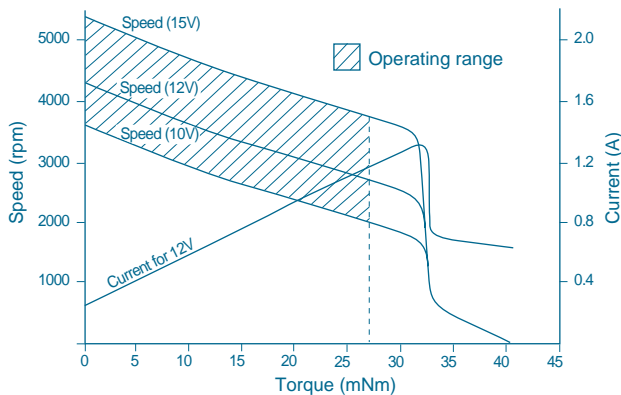
All relevant values in above table are valid for nominal supply voltages and Tamb.=22°C

1) For thermal reasons it is advised to mount the motor on a heat conducting frame if high output power is desired.

Maximum radial load 15 mm from mounting front at 3000 rpm	N	40
Mass of motor	g	200



Performance curves 12V versions



Performance curves 24V versions

