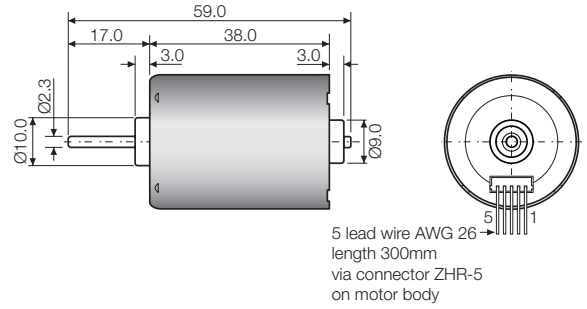
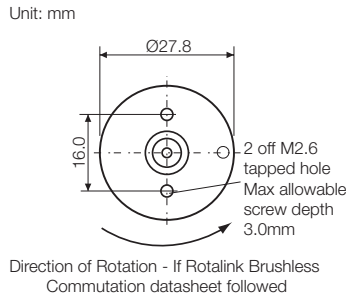


DC Motors

BLB2838-1207

Issue 02:CN3809



Performance									
Volts V	No Load		Max Cont. Power at 23°C				Stall		Max Power W
	Speed rpm	Current A	Speed rpm	Current A	Torque mNm	Output W	Torque mNm	Current A	
12	10000	0.50	7750	1.44	11.7	9.4	15.8	1.4	9.8

Performance characteristics and general specification are from calculated data.

General Specification

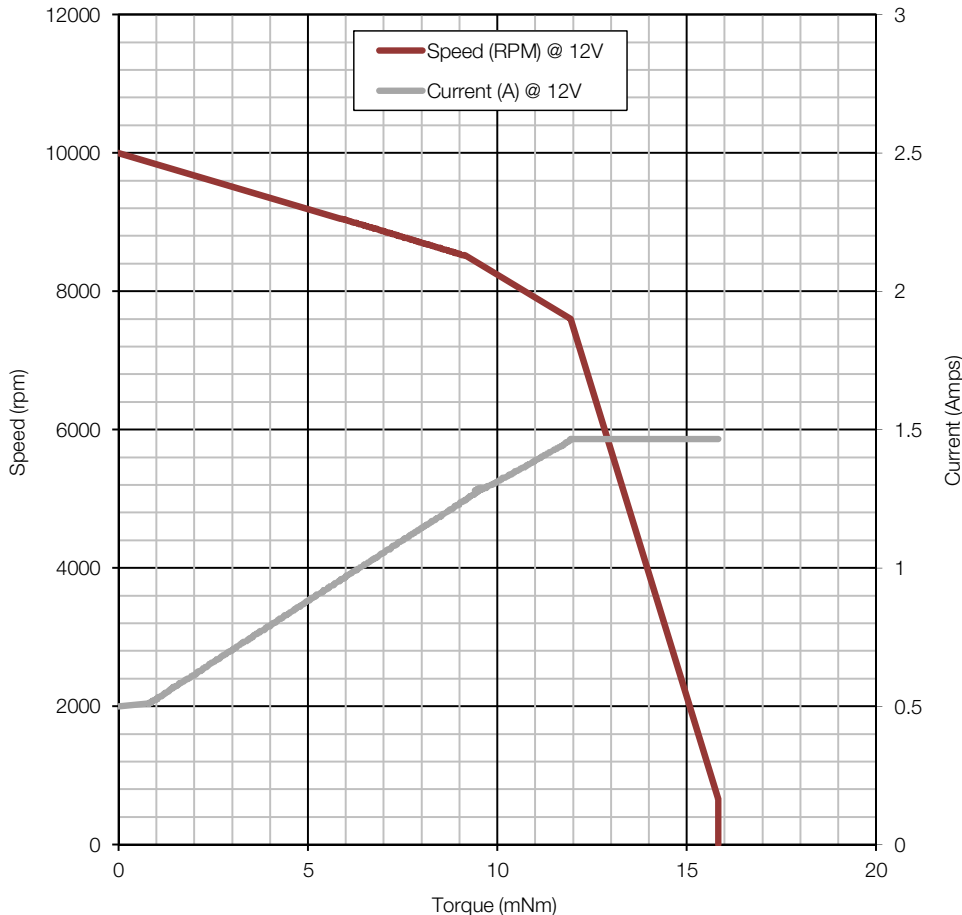
Bearings	Ball race
Commutation	Built-in, with sensors
Rotation	CCW
Number of poles	6
Nominal resistance	1.3 Ω
Nominal Inductance	0.2 mH
Typical max. detent torque	4 mNm
Max Cont. Torque at 23°C	12.5 mNm
Max Cont. Torque at 40°C	5 mNm
Motor weight	85 g

Operating voltage	9-15 V
Signal voltage	0-5 V

Connector Interface

Pin	Colour	Signal	I/O	Specification
1	Op. Voltage (Red)		IN	9-15 V
2	GND (Black)		IN	
3	Tacho Output (Yellow)	VOH	OUT	2V ≤ V ≤ 5V, at 5V 4.7kΩ pull up
		VOL		0.6 V max
		Sink current		3 mA max
		Output pulse		3 pulse/round
4	Direction (White)	VOH	IN	2V ≤ V ≤ 5V or open :CCW
		VOL		0.8 V max :CW
5	Speed Control (Green)	VOH	IN	2V ≤ V ≤ 5V or open :motor stop
		VOL		0.8 V max motor drive
		PWM signal		20 kHz ~ 30 kHz

Characteristics



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