

BI28



In-runner 28mm BLDC Motor

Design

BI2838 Series motors are Brushless DC Inrunner motors with 28mm diameter and 38mm height. These motors have a very compact inbuilt driver with features like Direction control, PWM Function & Tacho output functions. Available in different speeds and different voltages on special request. Available with ball bearing with life of ≥ 5000 Hrs as default. These motors can be combined with wide range of Mechtex gearheads depending on the application, output speed & torque requirement.

Standard Data

Motor Type		Brushless dc motor
Configuration		9N-6P
Ambient Temperature Operation	°C	-20 to +80 °C
Storage & Transport Temperature	°C	-20 to +100°C
Weight	g	86
Insulation Class		E
Electrical Enclosure	IP	40 (As per IEC 60529)
Life expectancy		>5000 hours @ Rated Torque

Pin Configuration

Pin 1	Vcc	DC Supply +VE (8-24V)
Pin 2	GND	DC Supply -VE
Pin 3	FG _{OUT}	Frequency Generated Output
Pin 4	DIR	Direction Control Input
Pin 5	PWM	PWM for speed control(10khz-30khz)
Pin 6	BRK	Brake Input

Technical Data

MECHTEX MODEL No.	Physical data		No load data			Data at Rated Torque				Stall	
	Dia x height mm	Voltage V DC	Speed RPM	Current mA	Speed RPM	Current mA	Torque cNm	Power W(out)	Torque cNm	Current A	
BI2838	28 X 38	12	6000	180	4800	700	1.3	6.5	4.5	1.8	
	28 X 38	24	6000	100	4965	470	1.6	7.9	8.1	1.8	

*Other speeds & voltages on special request

Dimensional Drawing

