



BI28

In-runner 28mm BLDC Motor

Design

PI Series Motors are Brushless DC inrunner motors with 24mm diameter. In these BLDC Motors a very compact driver mounted on back side of motor with facility of Forward/Reversed, PWM FUNCTION & Taco output functions as default. These motors are available in different speed and different voltage on special request. This motor is available in bush bearing with life of => 2000 Hrs. These Motors are used in combination with many Mechtex gearheads. Depending on the application, output speed, load applied etc the type of gearhead can be selected. Various types of gears i.e poly acetal, sintered iron, brass & steel gears can be used based on the load considerations. Poly acetal or sintered gears usually are used for noise dampening & complete poly acetal gears are used when the output torque required is less. All bearings are permanently lubricated and therefore require no maintenance.

Features

PI Series Motors are Brushless DC inrunner motors with 24mm diameter. In these BLDC Motors a very compact driver mounted on back side of motor with facility of Forward/Reversed, PWM FUNCTION & Taco output functions as default. These motors are available in different speed and different voltage on special request. This motor is available in bush bearing with life of => 2000 Hrs. These Motors are used in combination with many Mechtex gearheads. Depending on the application, output speed, load applied etc the type of gearhead can be selected. Various types of gears i.e poly acetal, sintered iron, brass & steel gears can be used based on the load considerations. Poly acetal or sintered gears usually are used for noise dampening & complete poly acetal gears are used when the output torque required is less. All bearings are permanently lubricated and therefore require no maintenance.

Application

Industrial Machines, Vending Machines, HVAC , Computer Peripherals, Automation, Military equipments

Options

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Standard Data

Parameter	Value	Unit
Motor type	Brushless dc motor	
Ambient temperature operation	-20 to+105	°C
Storage & Transport Temperature	-25 to+110	°C
Combination with Mechtex Gear Series	GB5P/5H,GB 38OCP, GB B/C/L,GB 374/7/8, GBV/U/W/X/M	
Standard motor voltages	24,12 volts	V
Weight Insulation Class	86 E	g
Electrical Enclosure	40	IP
Mounting Life expectancy	By snap clip or by screws £ 2000 hours @ Rated Torque	
Direction	Reversible	

Technical Data

Parameter	Value	Unit
Physical Data for (Dim. mm)	28X38	Dia x height
No load data for Voltage	12	VDC
No load data for Speed	6000	RPM
No load data for No-Load	0.17	Current A
Data at Rated Torque for Speed	5500	RPM
Data at Rated Torque for Current	0.772	AMPs
Data at Rated Torque for Torque	1.0	Ncm
Data at Rated Torque for Effie	65	%
Data at Rated Torque for Power	5.03	W(out)
Data at Rated Torque for Power	9.26	W(in)
Stall for Torque	4.83	Ncm
Stall for Current	0.730	A

Dimensional Drawing

