

## BI24

### In-runner 24mm BLDC Motor

#### Design

QI Series motors are Brushless DC Inrunner motors with 28mm diameter. In these BLDC Motors a very compact driver mounted on back side of motor with facility, Forward/Reversed and PWM function & Taco output functions. These motors are available in different speed and different voltage on special request. These motor is available in ball bearing with life of >5000 Hrs as default. That are used in combination with many Mechtex 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

QI Series motors are Brushless DC Inrunner motors with 28mm diameter. In these BLDC Motors a very compact driver mounted on back side of motor with facility, Forward/Reversed and PWM function & Taco output functions. These motors are available in different speed and different voltage on special request. These motor is available in ball bearing with life of >5000 Hrs as default. That are used in combination with many Mechtex 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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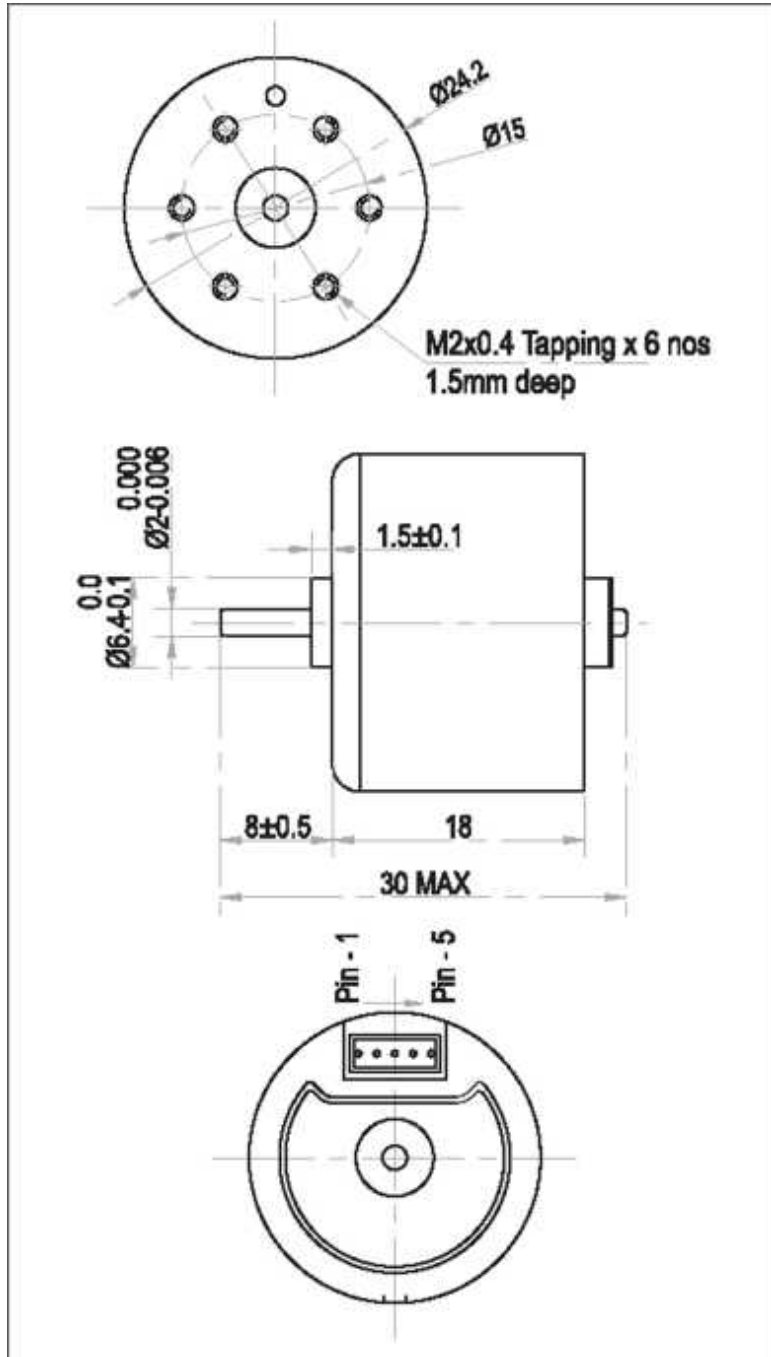
#### Standard Data

Parameter	Value	Unit
Motor type	Brushless dc motor	
Ambient temperature operation	-15 to+55	°C
Storage & Transport Temperature	-20 to+100	°C
Combination with Mechtex Gear Series	GB5P/5H,GB 38OCP,GB B/C/L.	
Standard motor voltages	24,12 volts	V
Weight Insulation Class	26 E	g
Electrical Enclosure	40	IP
Mounting Winding type	By snap clip or by screws Star Connection	
Life expectancy	> 2000 hours @ Rated Torque	
Direction	Reversible	

#### Technical Data

Parameter	Value	Unit
Physical Data for (Dim. mm)	24X18	Dia x Height
No load data for Voltage	12	VDC
No load data for Speed	11000	RPM
No load data for No-Load	0.100	Current A
Data at Rated Torque for Speed	9500	RPM
Data at Rated Torque for Current	0.361	AMPs
Data at Rated Torque for Torque	0.28	Ncm
Data at Rated Torque for Effie	63	%
Data at Rated Torque for Power	2.520	W(out)
Data at Rated Torque for Power	4.330	W(in)
Stall for Torque	1.1	Ncm
Stall for Current	0.760	A

## Dimensional Drawing



## Spur Reduction Gearheads -6Nm