Electromagnetic Brake Motor



90 Watt

Frame Size: 90 mm

Continuous Operation with Frequent Start Stop,
Load Holding & Minimum Overrun.
Electromagnetic Fail Safe Brake (Power Off

Activated) fitted at the back.

Rotates in Clockwise or Counter Clockwise Direction.

Terminal box or Lead Wires for Connection.



Specifications:

Model	Supply Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor
		Hz	A	N.m	N.m	RPM	μF
90 EW 4□ 90	Single Phase 110V	50	1.50	0.45	0.69	1300	20.0
90 EX 4 🗆 90	Single Phase 230V	50	0.75	0.45	0.69	1300	3.5
90 EY 4 🗆 90	Three Phase 230V	50	0.75	0.78	0.70	1300	_
90 EY 4 🗆 90	Three Phase 415V	50	0.40	0.78	0.70	1300	

☐ Type Of Shaft, G for Gear Shaft, R for Round Shaft

Gearmotor Torque Table:

The maximum permissible torque is 20 N.m

50 Hz Unit: N.m

RPM	500	416	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3
Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
Output Torque		2.0	2.8	3.3	4.2	5.0	6.3	7.5	9.1	11.2	13.4	16.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

The Gear boxes are sold separately.

A coloured background indicates gear shaft rotation in same direction as motor shaft.

A white background indicates gear shaft rotation in opposite direction to the motor shaft.

The speed of geared motor is calculated by dividing motor's synchronous speed by the gear ratio.

The actual speed is 2 - 20% less than the displayed value, depending upon the load.

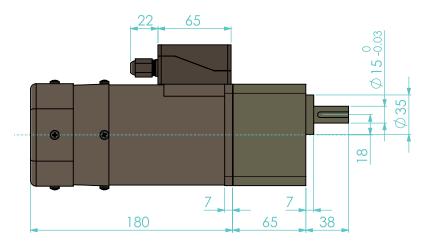
Characteristics, specifications and dimensions are subject to change without notice.

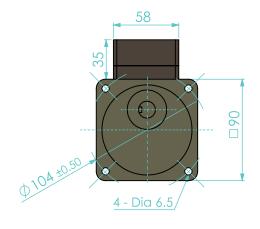


Electromagnetic Brake Motor

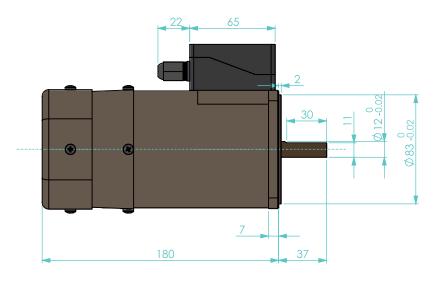
Dimensions

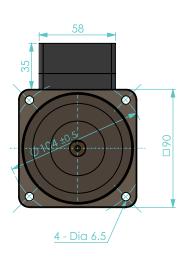
Motor, Gearbox with Terminal Box



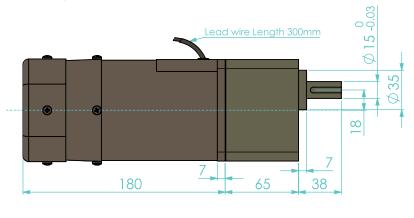


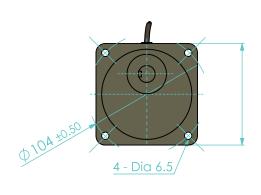
Motor Round Shaft with Terminal Box



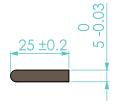


Motor, Gearbox with Lead wires

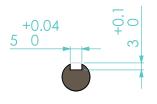




Key & Keyway





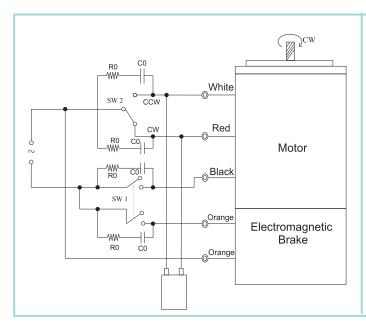


Electromagnetic Brake Motor



Wiring Diagram

Wiring Diagram for Single Phase Motor

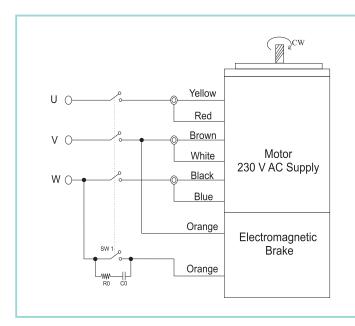


When SW1 is switched ON, Electromagnetic Brake is released & motor starts rotating. When SW1 is switched OFF then electromagnetic brake will be applied stopping the motor immediately & holding the load.

Apply voltage on the orange brake lead wires only, to release the Electromagnetic Brake.

To change the direction of rotation, flip CW to CCW.

Wiring Diagram for Three Phase Motor



When SW1 is switched ON, electromagnetic Brake is released & motor starts rotating. When Sw1 is switched OFF then electromagnetic brake will be applied stopping motor immediately, holding the load.

Apply voltage on the orange brake lead wires only, to release the Electromagnetic Brake.

To change the direction of rotation, interchange any two wires between U, V & W.