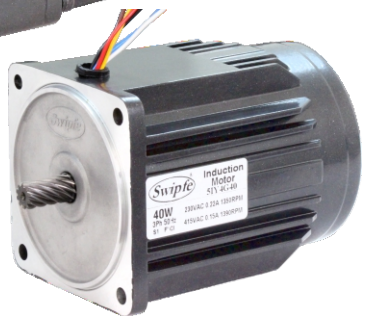
Induction Motor

40 Watt

Square Flange
90mm x 90mm



Continuous Duty
Clockwise or Counter Clockwise Rotation
Terminal Box or Lead Wires For Connection
Totally Enclosed Aluminium Body

Specifications:

Model	Supply	Freq. Hz	Stall Torque Nm	Rated Torque Nm	Rated Speed RPM	Rated Current Amp	Cap. µF
5IX4□40	Single Phase 230V	50	0.34	0.28	1350	0.27	2
5IY4□40	Three Phase 230V	50	0.56	0.28	1350	0.25	-
5IY4□40	Three Phase 415V	50	0.69	0.28	1400	0.17	-
5IX2□40	Single Phase 230V	50	0.20	0.14	2800	0.26	1
5IY2□40	Three Phase 230V	50	0.22	0.14	2800	0.23	-
5IY2□40	Three Phase 415V	50	0.33	0.14	2850	0.16	-

□ Indicates type of Shaft, G - Gear, R - Round, F - Frame, C - Custom

Gearmotor Torque Table:

The maximum permissible torque is 20 Nm
No Load speed of Motor at 50Hz is approx. 1440RPM

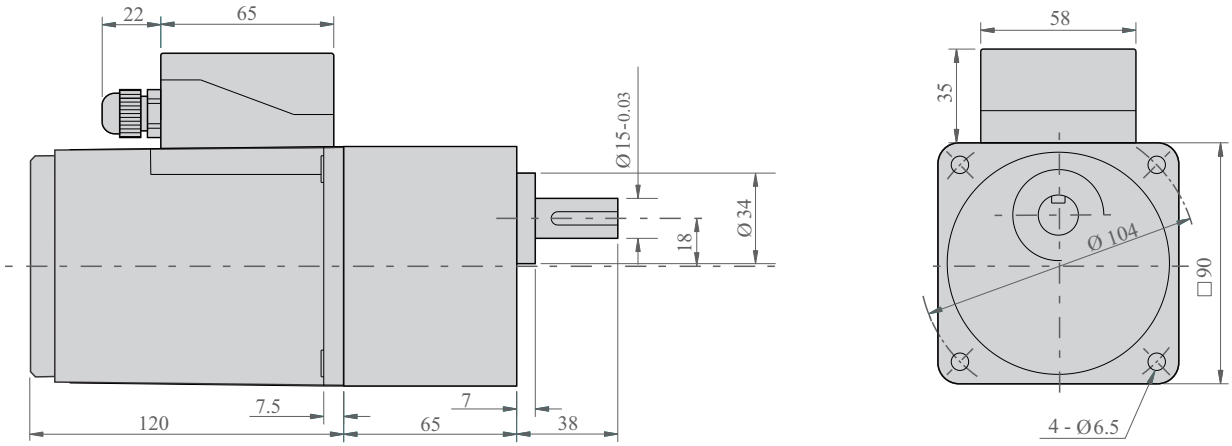
50Hz — Unit : Nm

RPM	480	400	288	240	192	160	115	96	80	57	48	40	29	24	19	16	14	12	9.6	8
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	0.72	0.87	1.2	1.4	1.8	2.2	2.7	3.2	3.9	4.9	5.8	7.0	8.8	10.6	13.3	15.9	17.7	20.0	20.0	20.0

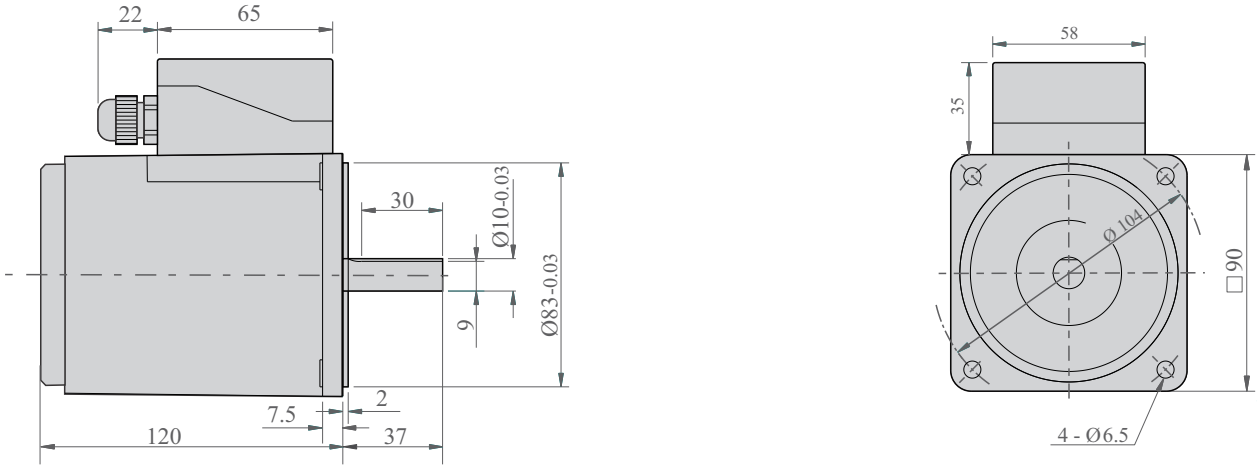
The Gear boxes are sold seperately.
A coloured background indicates gear shaft rotation in same direction as motor shaft.
A white background indicates gear shaft rotation in opposite direction to the motor shaft.
The speed of geared motor is calculated by dividing motor's no load speed by the gear ratio.
The actual speed is less than the displayed value, depending upon the load.
Characteristics, specifications and dimensions are subject to change without notice.

Dimensions:

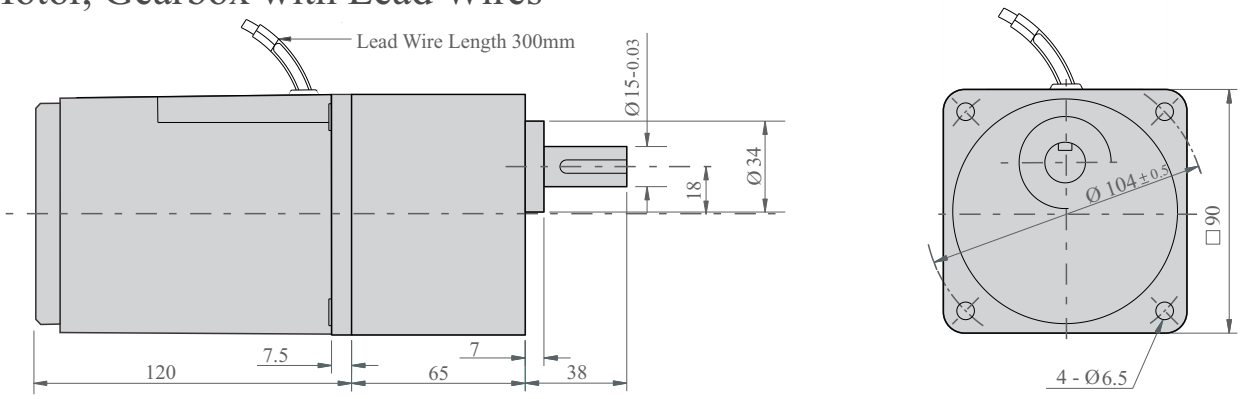
Motor, Gearbox with Terminal Box



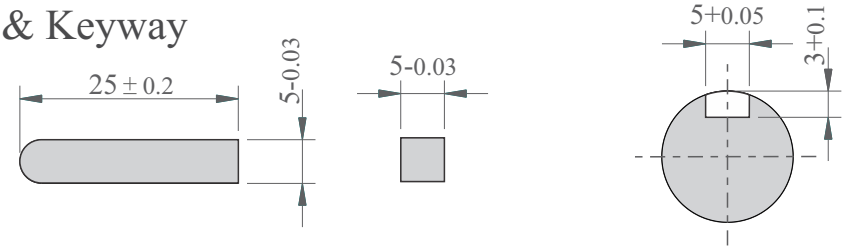
Motor Round Shaft with Terminal Box



Motor, Gearbox with Lead Wires



Key & Keyway

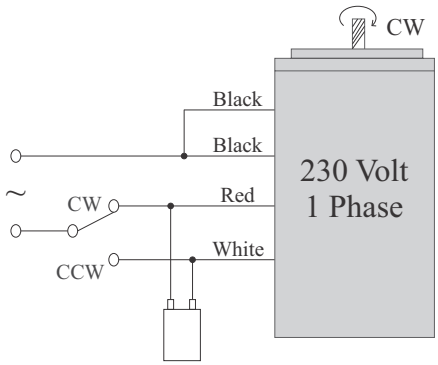


Weight:Motor 2.2 kg
Gear Box 1.5 kg

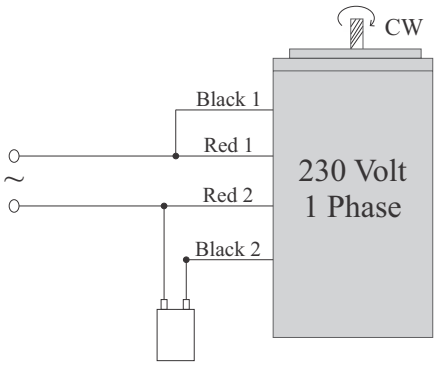
Induction Motor

Wiring Diagrams:

Wiring Diagram for Single Phase Motor



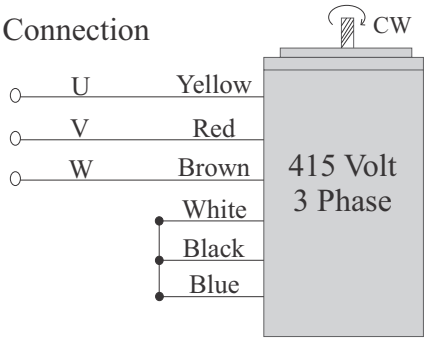
Short Black wires and connect as shown to rotate the motor in clockwise direction.
To change the direction, flip CW to CCW.



Red wires are for running winding & Black wires are for starting winding. To change the direction, interchange Black wires or Red wires.

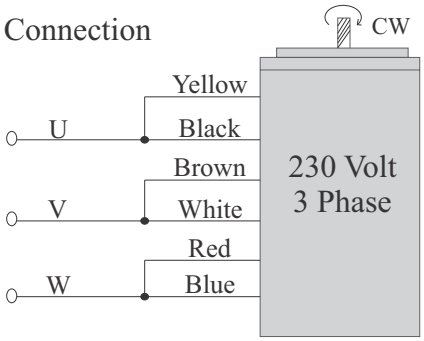
Wiring Diagram for Three Phase Motor

Star Connection



To change the direction, interchange any two wires between U, V & W. For 415 Volt 3 Phase supply, wires are connected as shown. Short White, Black, & Blue wires and then insulate it properly.

Delta Connection



To change the direction, interchange any two wires between U, V & W. For 230 Volt 3 Phase supply, wires are connected as shown.

Change the direction of motor only after it stops rotating. If the attempt is made during rotation, motor may not change the direction or change the direction after some time.