



Reversible Motor

12 watt

Frame Size : 65 x 65 mm

Specifications : 30 Minute Rating, TE Aluminium Body

Model	Output Power W	Frequency Hz	Supply Voltage V	Current A	Starting Torque Kg.cm	Rated Torque Kg.cm	Rated Speed RPM	Capacitor μ F
65 RW2G12	12	60	Single phase 110 V	0.3	0.27	0.4	2900	2.15
65 RX 4G12	12	50	Single phase 230 V	0.18	0.27	0.5	1200	1.85
65 RX 2G12	12	60	Single phase 230 V	0.18	0.27	0.4	2500	1.0
65 RY 4G12	12	50	Three phase 230 V	0.12	0.3	0.4	1200	
65 RZ 4G12	12	50	Three phase 415 V	0.1	0.3	0.4	1200	

The two pole motor i.e. which runs at 2500 RPM at rated torque, is recommended for use as it is more efficient than four pole motors.

There is no thermal protection to these motors.

Be sure to turn the motor off before inspection.

Gearmotor Torque Table :

The permissible torque is 40 Kg.cm.

50 Hz : Two Pole Motor

Unit: kg.cm

RPM	1000	832	600	500	400	333	240	200	166	120	100	83	60	50	40	33	30	25	20	16
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	1.0	1.2	1.8	2.1	2.7	3.2	4.5	5.4	6.5	8	9.6	11.5	13	15.6	19.5	23	26	31.2	39	40

50 Hz : Four Pole Motor

Unit: kg.cm

RPM	500	416	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	13	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	1.2	1.4	2	2.4	3	3.6	5	6	7.1	8.9	11	13	16	19	24	29	32	36	38	40

The Gearheads are sold separately.

A Coloured background indicates gear shaft rotation in the same direction; a White background indicates rotation in the opposite direction as the motor shaft.

The Speed is calculated by dividing the motor's synchronous speed (Two pole motor :3000RPM, Four pole motor :1500RPM) by the gear ratio.

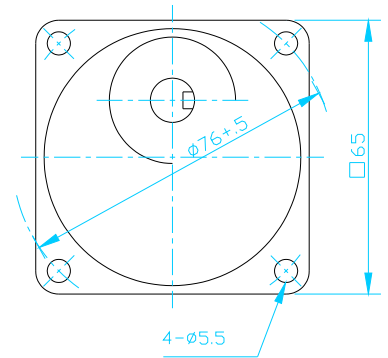
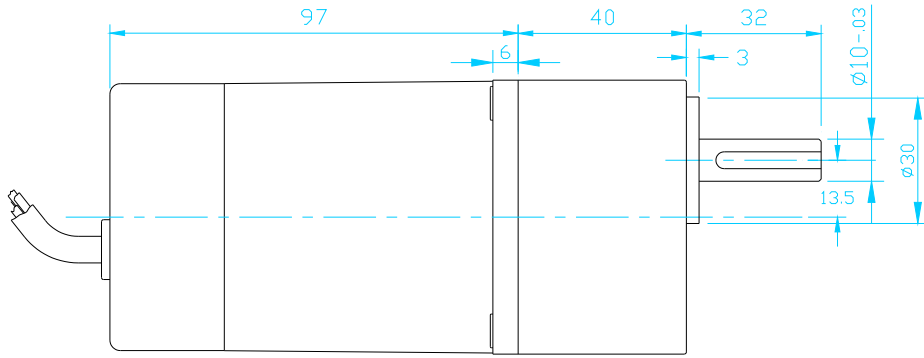
The actual Speed is 2~20 % less than the displayed value, depending on the size of the load.

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

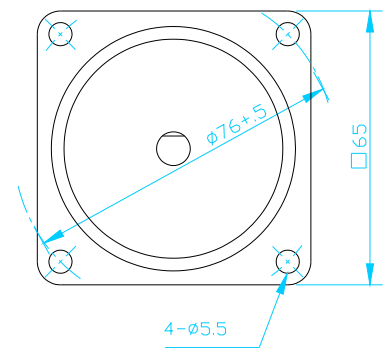
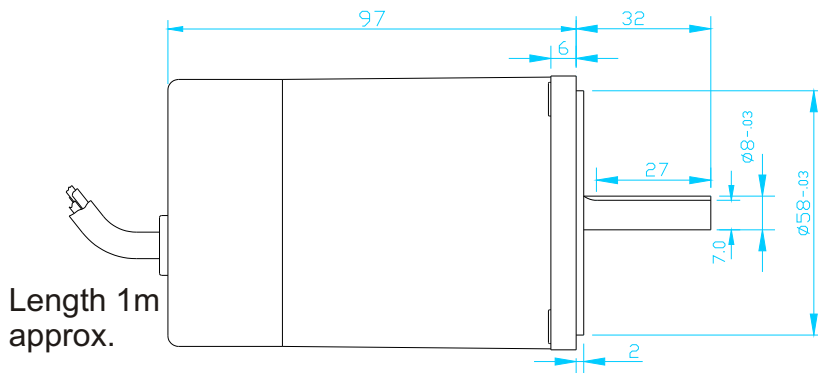
Dimensions:



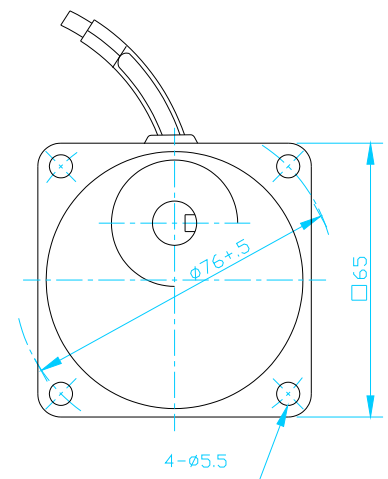
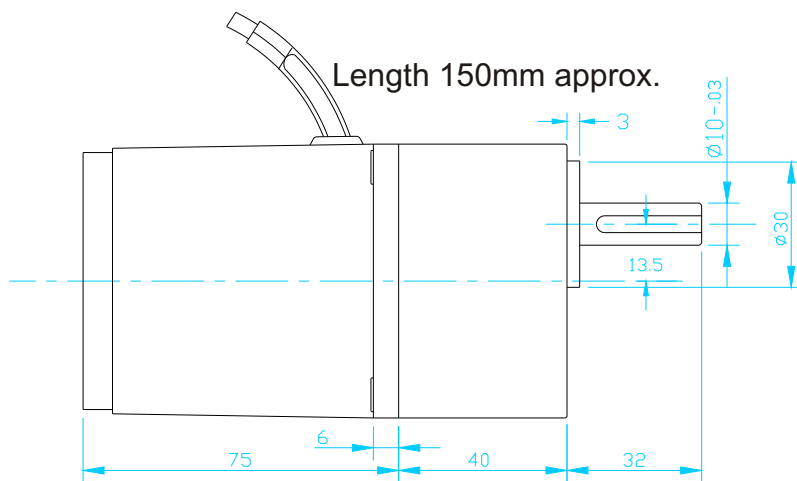
Motor Gearbox with Capacitor Cap



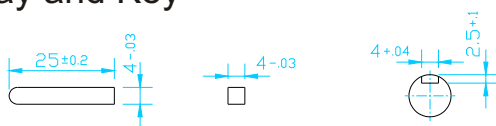
Motor Round Shaft with Capacitor Cap



Motor Gearbox with Leadwire



Keyway and Key



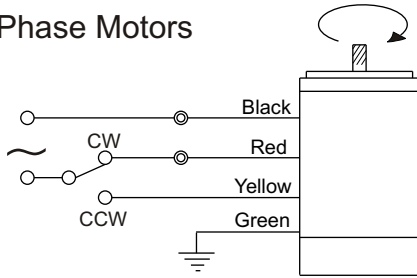
Weight: Motor 1 kg.
Gearbox .5 kg

Wiring Diagrams



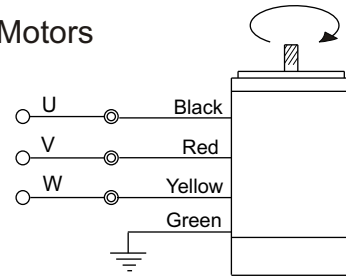
Capacitor Cap Type

Single Phase Motors



Capacitor is connected internally and is fitted in capacitor cap.
Make the connections as shown to rotate the motor in clockwise direction
To change the direction, flip SW to CCW

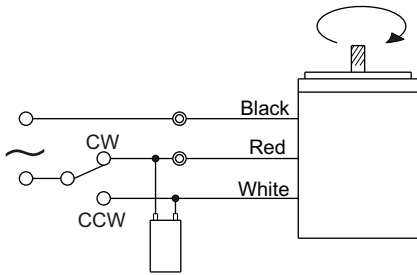
Three Phase Motors



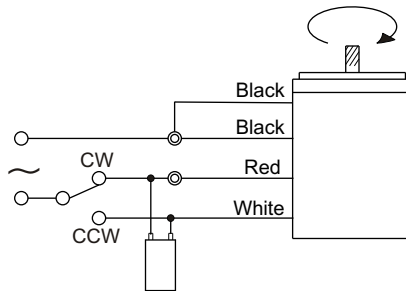
Make the connections as shown to rotate the motor in clockwise direction
To change the direction, interchange any two wire between U, V & W

Lead Wires Type

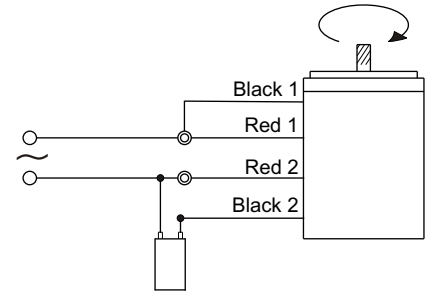
Single Phase Motors



Make the connections as shown to rotate the motor in clockwise direction
To change the direction, flip SW to CCW

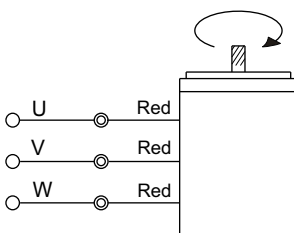


Short Black wires and connect as shown to rotate the motor in clockwise direction
To change the direction, flip SW to CCW



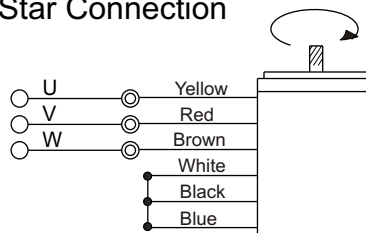
Red wires are for running winding & Black wires are for starting winding
To change the direction, interchange Black wires or Red wires

Three Phase Motors



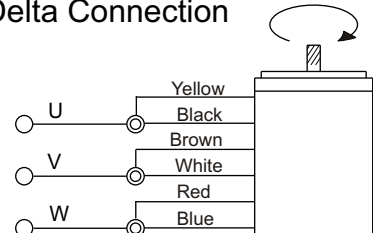
To change the direction, interchange any two wires between U, V & W
For 415 Volt supply, wires are Red coloured
For 230 Volt supply, wires are White coloured

Star Connection



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

Delta Connection



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

Change the direction of the motor only after it stops rotating. If the attempt is made during rotation, motor may ignore the reversing command or change the direction after some time.