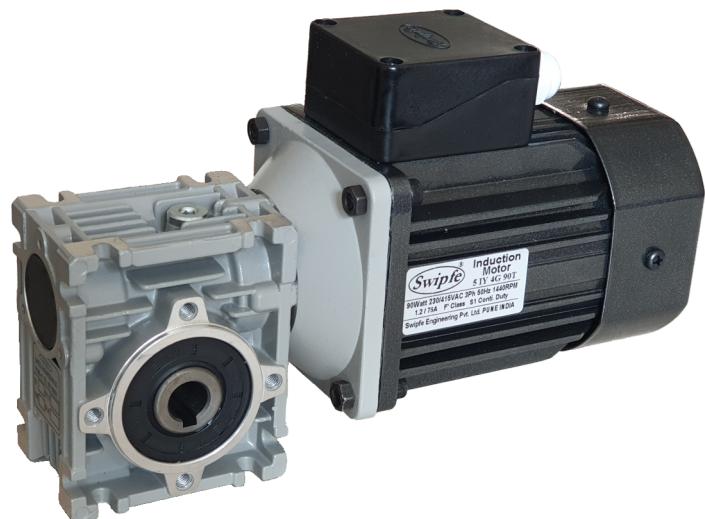


# Motor And Worm Gearbox

## GB30W

Motor Square Flange  
90mm x 90mm

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



### Motor Specifications:

Model	Supply	Freq. Hz	Stall Torque Nm	Rated Torque Nm	Rated Speed RPM	Rated Current Amp	Cap. μF
5IX4F180	Single Phase 230V	50	1.45	1.22	1350	1.10	8
5IY4F180	Three Phase 230V	50	1.50	1.34	1250	0.90	-
5IY4F180	Three Phase 415V	50	1.94	1.22	1350	0.48	-
5IX4F90	Single Phase 230V	50	0.86	0.62	1350	0.51	4
5IY4F90	Three Phase 230V	50	0.86	0.72	1250	0.44	-
5IY4F90	Three Phase 415V	50	1.10	0.61	1350	0.25	-
5IX4F60	Single Phase 230V	50	0.51	0.45	1350	0.42	3.15
5IY4F60	Three Phase 230V	50	0.56	0.45	1300	0.29	-
5IY4F60	Three Phase 415V	50	0.69	0.45	1350	0.18	-

### Gearmotor Torque Table:

The maximum permissible torque is 24 Nm

No Load speed of Motor at 50Hz is approx. 1440RPM

50Hz												Unit : Nm
RPM	288	192	144	96	72	57	48	36	29	24	18	
<b>Gear Ratio</b>	<b>5</b>	<b>7.5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>80</b>	
Output Torque	5.0	7.8	10.0	14.0	18.0	21.0	24.0	14.0	17.0	19.0	14.0	
Motor Power	180	180	180	180	180	180	180	90	90	90	60	

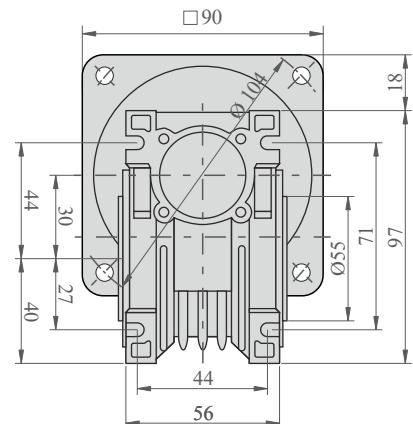
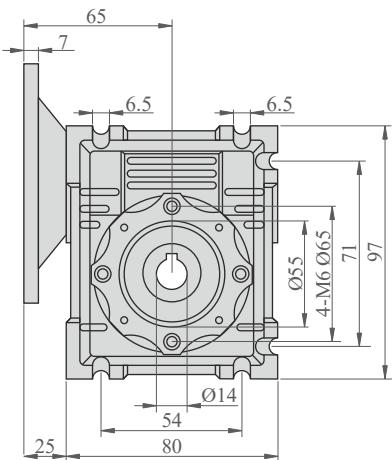
The Gear boxes are sold separately.

The speed of geared motor is calculated by dividing motor's no load speed by the gear ratio.

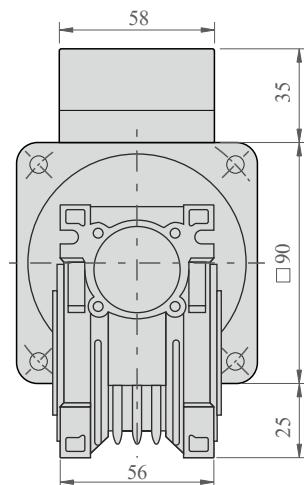
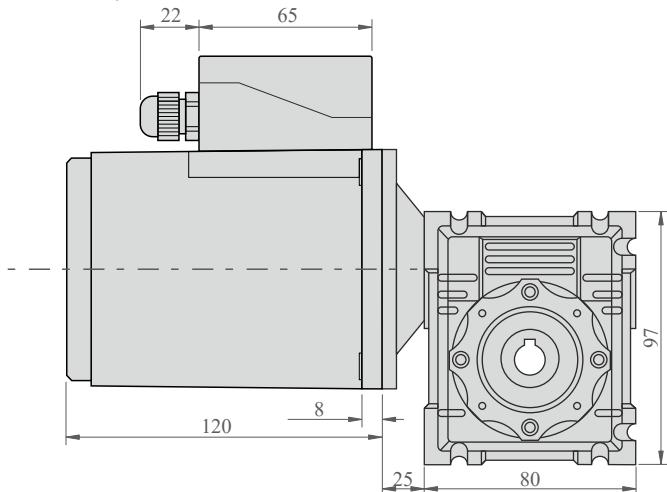
The actual speed is less than the displayed value, depending upon the load.

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

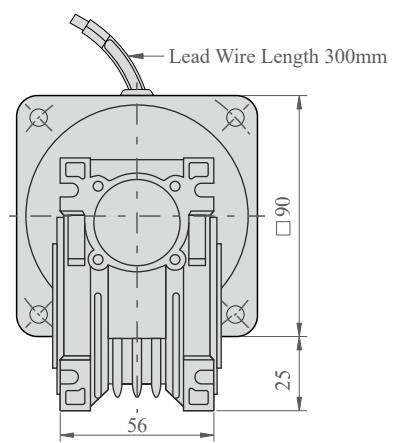
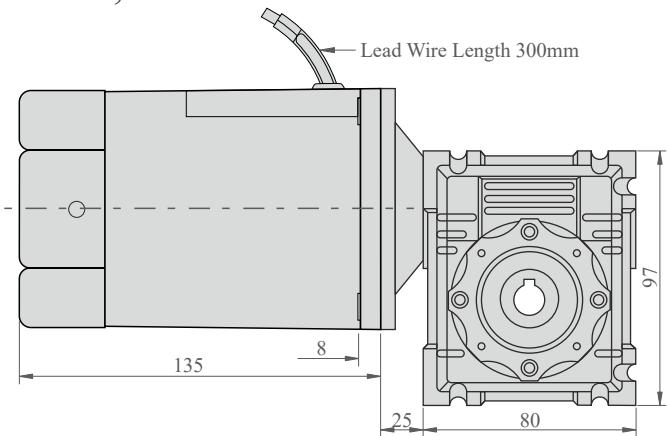
Dimensions:  
Worm Gearbox



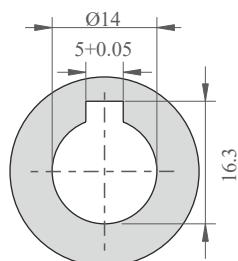
Motor, Gearbox with Terminal Box



Motor, Gearbox with Lead Wires



Hollow Shaft

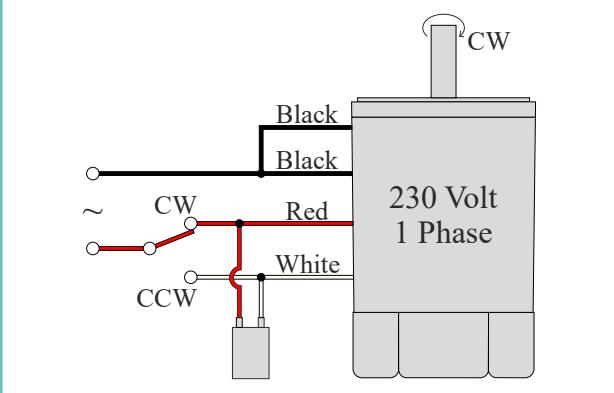
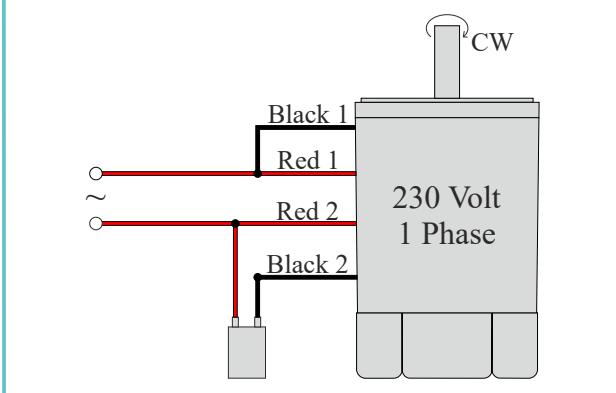


Max. Weight:  
Motor:- 2.5 - 3.3kg  
Gear Box:- 1.1 kg

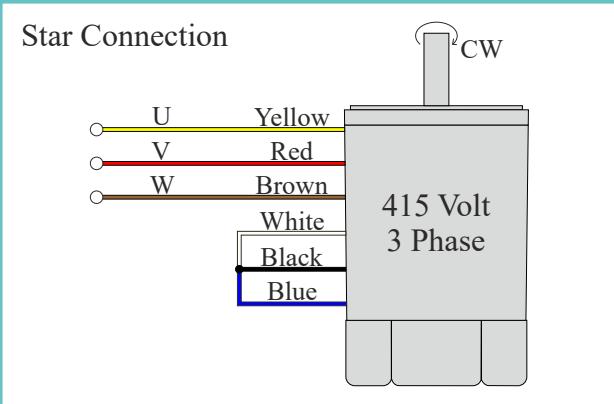
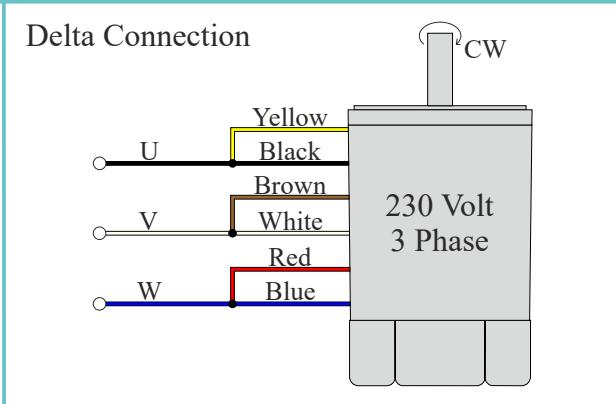
# Motor And Worm Gearbox

## Wiring Diagrams:

### Wiring Diagram for Single Phase Motor

	
<p>Short Black wires and connect as shown to rotate the motor in clockwise direction. To change the direction, flip CW to CCW.</p>	<p>Red wires are for running winding &amp; Black wires are for starting winding. To change the direction, interchange Black wires or Red wires.</p>

### Wiring Diagram for Three Phase Motor

<p>Star Connection</p> 	<p>Delta Connection</p> 
<p>To change the direction, interchange any two wires between U, V &amp; W. For 415 Volt 3 Phase supply, wires are connected as shown. Short White, Black, &amp; Blue wires and then insulate it properly.</p>	<p>To change the direction, interchange any two wires between U, V &amp; W. For 230 Volt 3 Phase supply, wires are connected as shown.</p>

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.