

#### **Induction Gear Motor**

Output

W

180

180

180

180

180

Power Frequency

Hz

60

50

60

50

50

180 watt

Model

90 IW 4G180

90 IX 4G180

90 IY 4G180

90 IY 4G180

90 IY 4G180

Frame Size: 90 x 90 mm

Continuous rating, TEFC Aluminum body
Rotates in clockwise or counter clockwise direction.
Direction of rotation can be reversed Overruns for a few rotation after supply is cut off
Speeds are 2880 / 1440 RPM and further low speeds with gearbox Terminal box or open lead wires for connection

Supply Voltage

Single phase 110 V

Single phase 230 V

Three phase 230 V

Three phase 230 V

Three phase 415 V



11.1

15.9

15.9

1500

1350

1350

#### Gear motor Torque Table:

The maximum permissible torque is 200. kg.cm

50 HZ														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	က	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	
Output Torque	36	42	60	70	88	106	135	160	192	200	200	200	200	200	200	200	200	200	200	200	

1.2

1.2

1.2

12.3

15.9

15.9

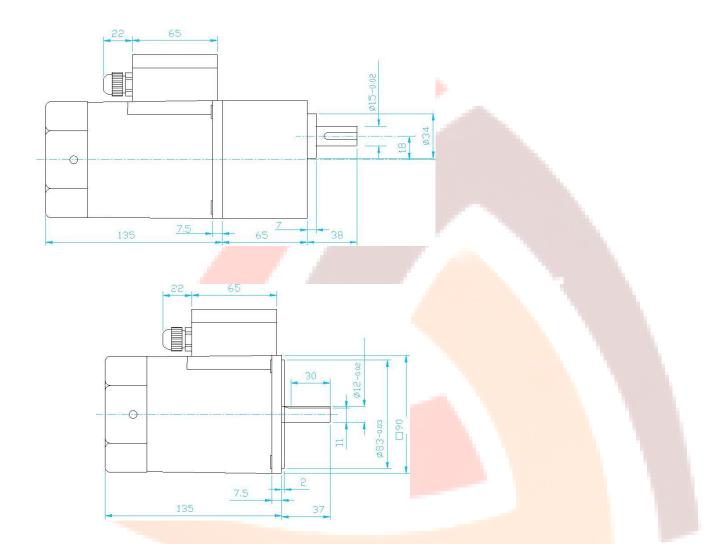
60 HZ	Unit: kg															kg.	,cm			
RPM	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
<b>Output Torque</b>	28	34	48	56	72	86	106	128	154	194	200	200	200	200	200	200	200	200	200	200

The Gearheads are sold separately.

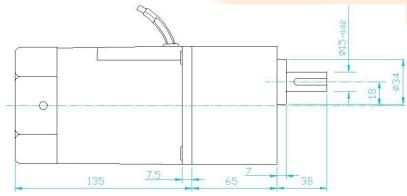


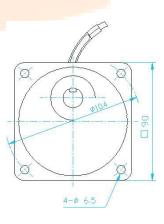
# **Dimensions**

Motor, Gearbox with Terminal Box



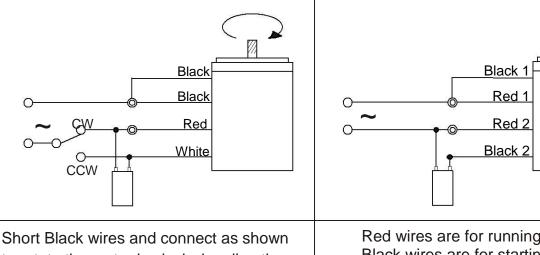
### Motor, Gearbox with Lead wires







## Wiring Diagram for Single Phase Motors



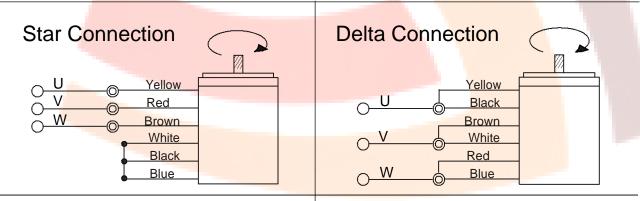
to rotate the motor in clockwise direction

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

### Wiring Diagram for Three Phase Motors



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

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

For 415 Volt supply, wires are connected For 230 Volt 3 Ph. supply, wires are connected as shown. Short White, Black & Blue wire as shown. And then insulate properly.