

90 Watt

Frame Size: 90 mm

Continuos Rating, TEFC Aluminium Die Cast Body.
Rotates in clock wise or counter clock wise direction.
Over runs after few rotations after supply is cutt off.
Speeds are 2880 / 1440 and further low speeds with the gearbox.
Terminal box or open lead wires for connections.



Output Power W	Model	Frequency Hz	Supply Voltage Volt	Current	Starting Torque Kg.cm	Rated Torque Kg.cm	Rated Speed RPM	Capacitor µF
90	90 4G IW 90	60	110 V Single Phase	1.50	4.5	5.8	1500	10
90	90 4G IX 90	50	230 V Single Phase	0.71	4.5	6.8	1250	3.15
90	90 4G IY 90	60	230 V Three Phase	0.72	7.2	6.2	1500	
90	90 4G IY 90	50	230 V Three Phase	0.60	7.0	7.1	1330	
90	90 4G IZ 90	50	415 V Three Phase	0.39	7.1	7.1	1330	

Gearmotor 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	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	17	20	27	34	41	50	63	75	90	112	132	161	200	200	200	200	200	200	200	200

60 Hz Unit: 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
Output Torque	14	18	24	28	38	42	54	64	78	97	115	140	192	200	200	200	200	200	200	200

Gear Boxes are sold separately.

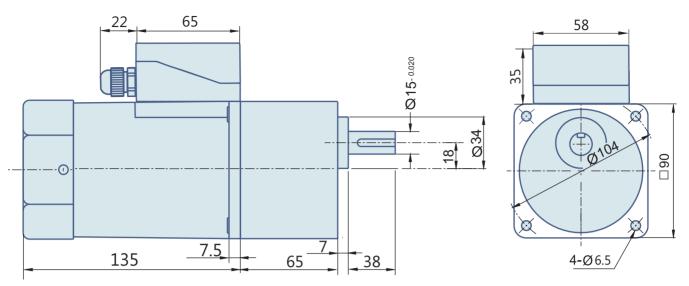
A Sky blue colored background indicates gear shaft rotation in the same direction; a Brown background indicates rotation in the opposite direction as the motor shaft. The speed of the Gear Motor is calculated by dividing the motor's synchronous speed (50 Hz; 1500 RPM & 60 Hz; 1800 RPM) by the ratio.

The actual speed is 2~20% less than the displayed value, depending upon the load size. Characteristics, specifications and dimensions are subjected to change without prior notice.

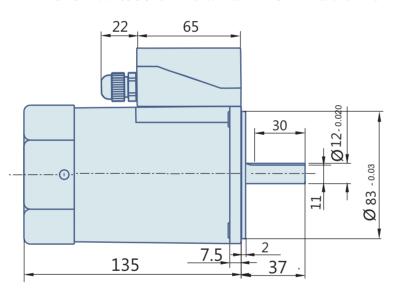


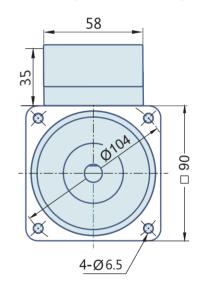
Dimensions

90 Watt: AC Geared Motor With Terminal Box

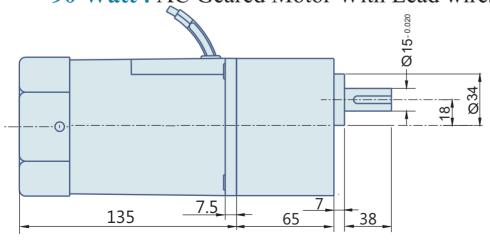


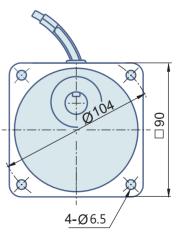
90 Watt: Round AC Induction Motor With Terminal Box





90 Watt: AC Geared Motor With Lead wires





Key and Keyway







Weight
Motor:3.1 Kg, Gearbox: 1.5 Kg.



Wiring Diagram

Wiring diagram for Single Phase Motors

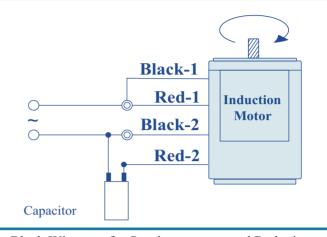
Standard Single Phase Motor

Black Black Red White CCW Capacitor

Short the Black wires and connect as shown in fig., To rotate the motor in Clockwise direction.

To change the direction, flip CW to CCW.

SR Type Single Phase Motor



Black Wires are for Starting purpose and Red wires for the Running purpose, as shown in fig.,

To change the direction, interchange Black wires or Red wires.

Wiring diagram for Three Phase Motors

U Brown V Red W Yellow Black Blue White

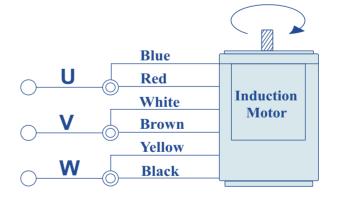
Star Connection

For the Voltage 415 VAC, 3-Phase Supply, Wires are connected as shown in the fig.

Short Blue, Black and White and then insulate it carefully.

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

Delta Connection



For the Voltage 230 VAC, 3-Phase Supply, Wires are connected as shown in the fig.

Short Blue & Red, Black & Yellow, and White& Red as per the fig. Shown.

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

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