

B AC Motors

Induction Motor 15W(□ 80mm)

15W

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Motor Specification

Model		Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque		Rated Load			Capacitor μF / VAC	
Lead Wire Type	Terminal Box Type						kgfcm	N.m	Speed r/min	Current A	Torque kgfcm N.m		
8IDG*-15□(-T)	8IDGA-15□-T	15	1∅110	60	4	Cont.	0.84	0.084	1600	0.39	0.98	0.098	3.5 / 450
8IDD*-15(-T)	8IDGD-15□-T	15	1∅220	60	4	Cont.	1.40	0.140	1600	0.22	1.10	0.110	1.2 / 450
8IDGE-15□	8IDGE-15□-T	15	1∅220	50	4	Cont.	1.05	0.105	1250	0.17	1.17	0.117	1.2 / 450
			1∅240				1.20	0.120		0.18	1.30	0.130	
8IDGG-15□	8IDGG-15□-T	15	3∅220	50	4	Cont.	4.80	0.480	1300	0.22	1.40	0.140	-
				60			4.00	0.400	1600	0.18	1.00	0.100	
8IDGK-15□	8IDGK-15□-T	15	3∅380	50	4	Cont.	4.60	0.460	1300	0.13	1.20	0.120	-
				60			3.60	0.360	1550	0.11	1.00	0.100	
			3∅400	50	4	Cont.	5.00	0.500	1300	0.14	1.40	0.140	
				60			4.00	0.400	1600	0.12	1.00	0.100	
			3∅415	50	4	Cont.	5.40	0.540	1350	0.15	1.20	0.120	
				60			4.20	0.420	1600	0.13	1.00	0.100	
			3∅440	50	4	Cont.	6.00	0.600	1350	0.16	1.40	0.140	
				60			4.60	0.460	1600	0.14	1.40	0.140	

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft is for attaching Gearbox and D-Cut Type Shaft is for using motor only.

※ It is not possible to use inverter for three phase 380~440V motor. When inverter is used, the insulation of winding coil becomes hot and may cause damage to the motor.

Max. Permissible Torque at Output Shaft of Gearbox

60Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180
			r/min	600	500	360	300	240	200	144	120	100	72	60	50	45	36	30	24	20	18	15	12
8IDG□-15G	8GBK□BMH	kgfcm	3.0	3.6	5.0	6.0	7.5	9.0	12.5	14.9	17.9	22.5	27.0	29.4	32.6	40.8	49.0	61.2	73.4	80.0	80.0	80.0	80.0
		N.m	0.29	0.35	0.49	0.59	0.73	0.88	1.22	1.46	1.76	2.21	2.65	2.88	3.20	4.00	4.80	6.00	7.20	7.84	7.84	7.84	7.84

Motor Model	Gearbox Model	Gear Ratio	200	250	300	360
			r/min	9	7	6
8IDG□-15G	8GBK□BMH	kgfcm	80.0	80.0	80.0	80.0
		N.m	7.84	7.84	7.84	7.84

Motor Model	Gearbox Model	Gear Ratio	10	12	15	18	25	30	36	50	60
			r/min	180	150	120	100	72	60	50	36
8IDG□-15W	8WD□BL/□BR/□BRL	kgfcm	9.8	11.5	13.9	16.0	21.0	23.8	27.6	36.0	39.6
		N.m	0.96	1.13	1.36	1.57	2.06	2.33	2.71	3.53	3.88

50Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180
			r/min	500	417	300	250	200	167	120	100	83	60	50	42	38	30	25	20	17	15	13	10
8IDG□-15G	8GBK□BMH	kgfcm	3.5	4.2	5.8	7.0	8.7	10.5	14.5	17.4	20.9	26.3	31.5	34.3	38.1	47.6	57.1	71.4	80.0	80.0	80.0	80.0	80.0
		N.m	0.34	0.41	0.57	0.68	0.85	1.02	1.42	1.71	2.05	2.57	3.09	3.36	3.73	4.66	5.60	7.00	7.84	7.84	7.84	7.84	7.84

Motor Model	Gearbox Model	Gear Ratio	200	250	300	360
			r/min	7	6	5
8IDG□-15G	8GBK□BMH	kgfcm	80.0	80.0	80.0	80.0
		N.m	7.84	7.84	7.84	7.84

Motor Model	Gearbox Model	Gear Ratio	10	12	15	18	25	30	36	50	60
			r/min	150	125	100	83	60	50	42	30
8IDG□-15W	8WD□BL/□BR/□BRL	kgfcm	11.5	13.4	16.2	18.6	24.5	27.7	32.3	42.0	46.2
		N.m	1.13	1.32	1.58	1.83	2.40	2.72	3.16	4.12	4.53

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

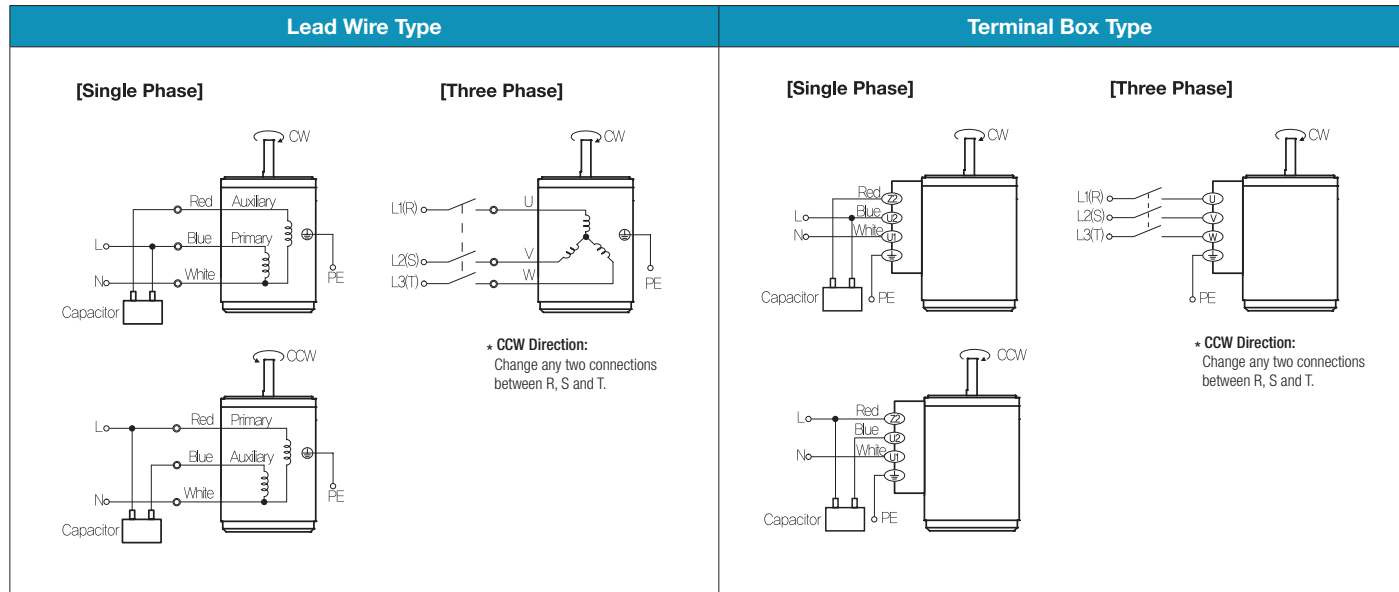
3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio. The actual speed is 2~20% less than the displayed value, depending on the size of the load.

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Connection Diagrams



- 1) The direction of motor rotation is as viewed from the shaft end of the motor.
- 2) CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- 3) Change the direction of single phase motor rotation only after bringing the motor to a stop. If an attempt is made to change the direction of rotation while the motor is rotating, the motor may ignore the reversing command or change its direction after some delay.