

Induction Motor 25W(□ 80mm)

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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		
8IDGA-25□	8IDGA-25□-T	25	1∅110	60	4	Cont.	1.67	0.167	1550	0.46	1.58	0.158	6.0 / 250
8IDGD-25□	8IDGD-25□-T	25	1∅220	60	4	Cont.	1.80	0.180	1550	0.25	1.65	0.165	1.5 / 450
8IDGE-25□	8IDGE-25□-T	25	1∅220	50	4	Cont.	1.10	0.110	1200	0.23	2.10	0.210	1.3 / 450
			1∅240				1.30	0.130		0.25	2.20	0.220	
8IDGG-25□	8IDGG-25□-T	25	3∅220	50	4	Cont.	5.00	0.500	1300	0.32	2.00	0.200	-
				60			0.40	0.040	1600	0.25	1.60	0.160	
8IDGK-25□	8IDGK-25□-T	25	3∅380	50	4	Cont.	3.60	0.360	1250	0.14	2.00	0.200	-
				60			3.00	0.300	1500	0.12	1.65	0.165	
			3∅400	50	4	Cont.	3.80	0.380	1250	0.15	2.20	0.220	
				60			3.20	0.320	1500	0.13	1.80	0.180	
			3∅415	50	4	Cont.	4.10	0.410	1300	0.15	2.00	0.200	
				60			3.40	0.340	1550	0.13	1.80	0.180	
			3∅440	50	4	Cont.	4.40	0.440	1300	0.17	2.20	0.220	
				60			3.60	0.360	1600	0.14	1.60	0.160	

- 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 r/min	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200
			600	500	360	300	240	200	144	120	100	72	60	50	45	36	30	24	20	18	15	12	10	9
8IDG□-25G	8GBK□ BMH	kgfcm N.m	4.5 0.44	5.4 0.53	7.5 0.73	9.0 0.88	11.2 1.10	13.4 1.32	18.7 1.83	22.4 2.20	26.9 2.64	33.8 3.31	40.5 3.97	44.1 4.32	49.0 4.80	61.2 6.00	73.4 7.20	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84

Motor Model	Gearbox Model	Gear Ratio r/min	200	250	300	360	Motor Model	Gearbox Model	Gear Ratio r/min	10	12	15	18	25	30	36	50	60
			9	7	6	5				8IDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	13.1 1.29	15.4 1.51	18.5 1.81	21.3 2.09	28.0 2.74	31.7 3.10
8IDG□-25G	8GBK□ BMH	kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	8IDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	13.1 1.29	15.4 1.51	18.5 1.81	21.3 2.09	28.0 2.74	31.7 3.10	36.9 3.61	48.0 4.70	52.8 5.17

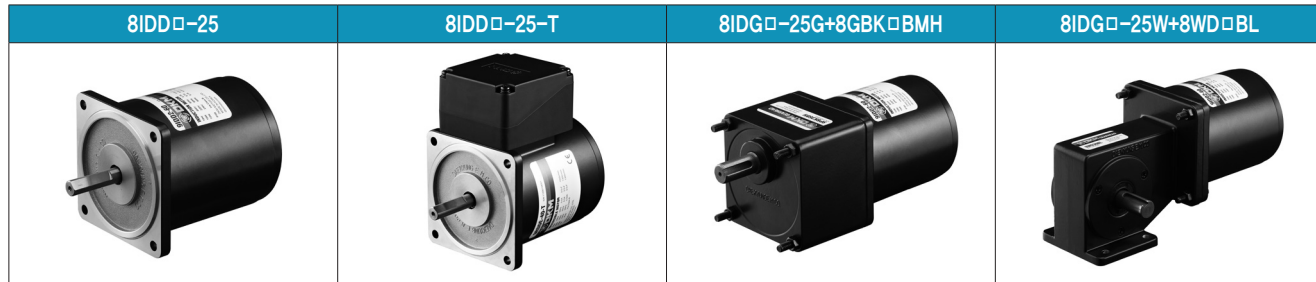
50Hz

Motor Model	Gearbox Model	Gear Ratio r/min	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200
			500	417	300	250	200	167	120	100	83	60	50	42	38	30	25	20	17	15	13	10	8	7.5
8IDG□-25G	8GBK□ BMH	kgfcm N.m	5.5 0.54	6.6 0.64	9.1 0.89	11.0 1.07	13.7 1.34	16.4 1.61	22.8 2.24	27.4 2.68	32.9 3.22	41.3 4.04	49.5 4.85	53.9 5.28	59.8 5.86	74.8 7.33	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84

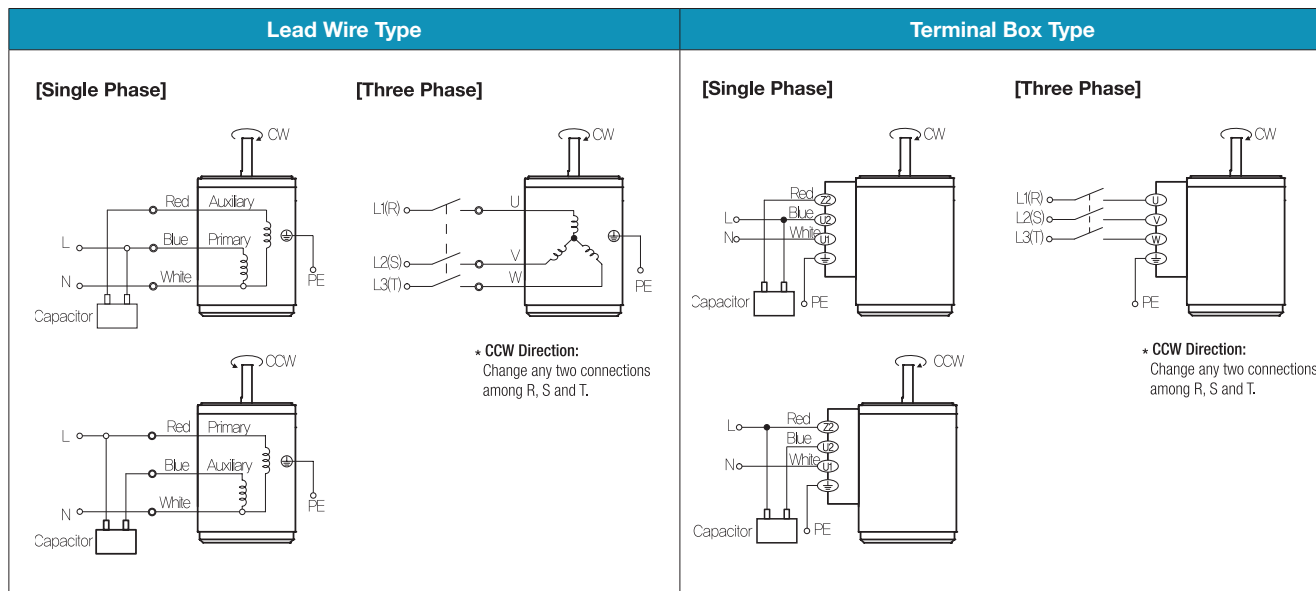
Motor Model	Gearbox Model	Gear Ratio r/min	200	250	300	360	Motor Model	Gearbox Model	Gear Ratio r/min	10	12	15	18	25	30	36	50	60
			7	6	5	5				8IDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	18.0 1.77	21.1 2.07	25.4 2.49	29.3 2.87	38.5 3.77	43.6 4.27
8IDG□-25G	8GBK□ BMH	kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	8IDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	18.0 1.77	21.1 2.07	25.4 2.49	29.3 2.87	38.5 3.77	43.6 4.27	50.7 4.97	66.0 6.47	72.6 7.11

- 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.

Motor Images



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.