

Induction Motor 25W(□ 80mm)

25W

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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*-25□(-T): Gear Type Shaft 8IDD*-25(-T): D-Cut Type Shaft													
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	
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	
			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	
			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	
			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	

- 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.

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	200	
			r/min	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	4.5	5.4	7.5	9.0	11.2	13.4	18.7	22.4	26.9	33.8	40.5	44.1	49.0	61.2	73.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		N.m	0.44	0.53	0.73	0.88	1.10	1.32	1.83	2.20	2.64	3.31	3.97	4.32	4.80	6.00	7.20	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84

Motor Model	Gearbox Model	Gear Ratio	200	250	300	360	Motor Model	Gearbox Model	Gear Ratio	10	12	15	18	25	30	36	50	60
			r/min	9	7	6				5	r/min	180	150	120	100	72	60	50
8IDG□-25G	8GBK□BMH	kgfcm	80.0	80.0	80.0	80.0	8IDG□-25W	8WD□BL/□BR/ □BRL	kgfcm	13.1	15.4	18.5	21.3	28.0	31.7	36.9	48.0	52.8
		N.m	7.84	7.84	7.84	7.84			N.m	1.29	1.51	1.81	2.09	2.74	3.10	3.61	4.70	5.17

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	200	
			r/min	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	5.5	6.6	9.1	11.0	13.7	16.4	22.8	27.4	32.9	41.3	49.5	53.9	59.8	74.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		N.m	0.54	0.64	0.89	1.07	1.34	1.61	2.24	2.68	3.22	4.04	4.85	5.28	5.86	7.33	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84

Motor Model	Gearbox Model	Gear Ratio	200	250	300	360	Motor Model	Gearbox Model	Gear Ratio	10	12	15	18	25	30	36	50	60
			r/min	7	6	5				5	r/min	150	125	100	83	60	50	42
8IDG□-25G	8GBK□BMH	kgfcm	80.0	80.0	80.0	80.0	8IDG□-25W	8WD□BL/□BR/ □BRL	kgfcm	18.0	21.1	25.4	29.3	38.5	43.6	50.7	66.0	72.6
		N.m	7.84	7.84	7.84	7.84			N.m	1.77	2.07	2.49	2.87	3.77	4.27	4.97	6.47	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.

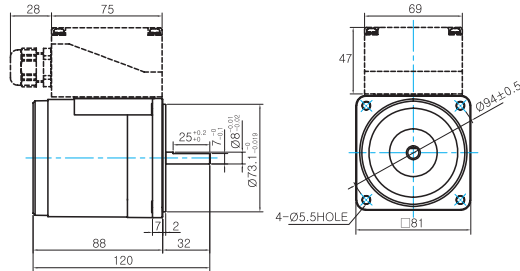
B AC Motors

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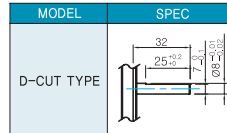
Dimensions

MOTOR ONLY

- MOTOR MODEL: 8IDD□-25(-T) (NO FAN)

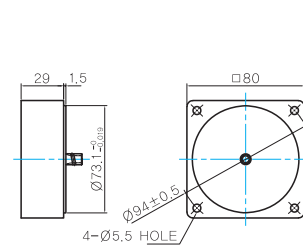


MOTOR OUTPUT SHAFT



INTER-DECIMAL GEARBOX

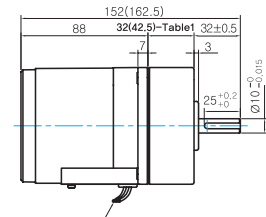
- MODEL: 8XD10□□



GEARED MOTOR

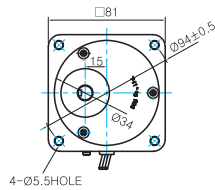
G TYPE GEARBOX

- MOTOR MODEL: 8IDG□-25G (NO FAN)



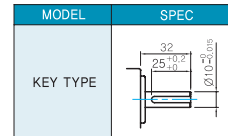
LEAD WIRE 300mm
UL STYLE NO.3271 AWG NO.22

- GEARBOX MODEL: 8GBK□BMH

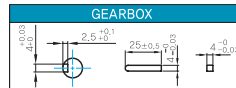


4- $\phi 5.5$ HOLE

GEARBOX OUTPUT SHAFT



KEY SPEC

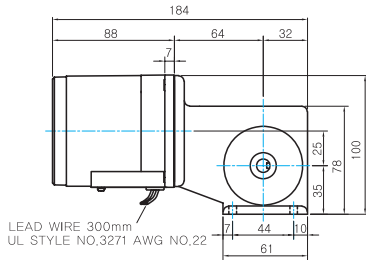


30(40)-Table1

SIZE(mm)	GEAR RATIO
32	8GBK3BMH ~ 8GBK18BMH
42.5	8GBK25BMH ~ 8GBK360BMH

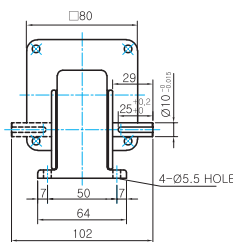
W TYPE GEARBOX

- MOTOR MODEL: 8IDG□-25W (NO FAN)



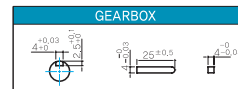
LEAD WIRE 300mm
UL STYLE NO.3271 AWG NO.22

- GEARBOX MODEL: 8WD□BL/BR/BRL



4- $\phi 5.5$ HOLE

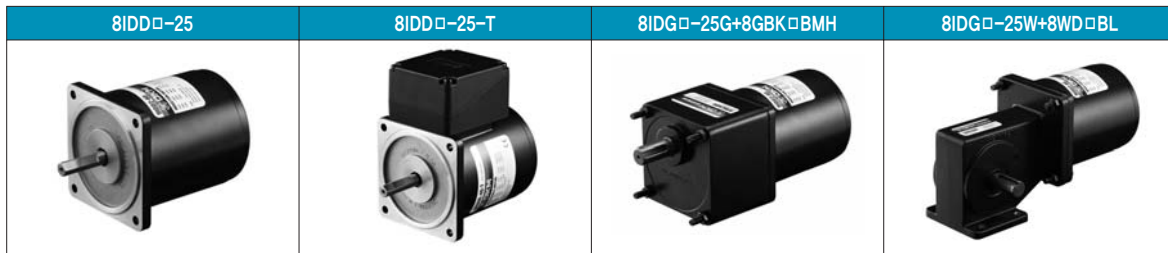
KEY SPEC



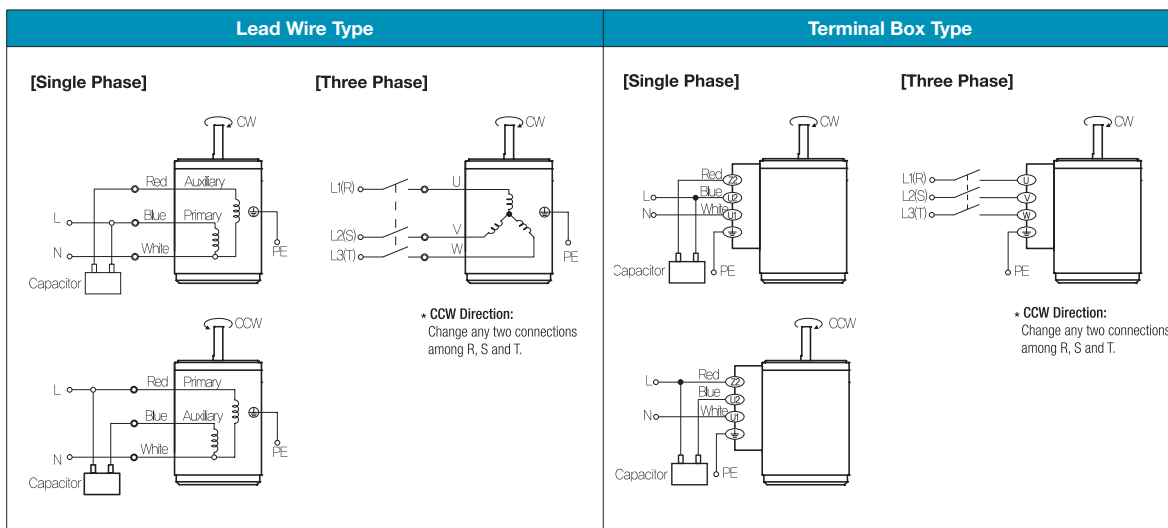
WEIGHT

PART	WEIGHT(Kg)	
MOTOR	1.6	
GEAR BOX	8GBK3BMH ~ 8GBK18BMH	0.48
	8GBK25BMH ~ 8GBK30BMH	0.61
	8GBK36BMH ~ 8GBK180BMH	0.67
	8GBK200BMH ~ 8GBK360BMH	0.63
	8WD□BL/BR/BRL	0.67
	8XD10□□	0.44

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.