

Brake Motor 25W (□80mm)

25W Brake Motor 25W(□80mm)

Brake Motor 25W (□80mm)

Motor Specification

Model 8BDG*-25□: Gear Type Shaft 8BDD*-25: D-Cut Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque kgfcm N.m		Rated Load				Capacitor μF / VAC
								Speed r/min	Current A	Torque kgfcm N.m		
8BDGA-25□	25	1∅110	60	4	30min.	2.40	0.240	1550	0.73	1.62	0.162	10.0 / 250
8BDGD-25□	25	1∅220	60	4	30min.	2.40	0.240	1550	0.36	1.62	0.162	2.5 / 450
8BDGE-25□	25	1∅220	50	4	30min.	2.10	0.210	1250	0.28	2.00	0.200	2.0 / 450
		1∅240				2.50	0.250		0.30	2.10	0.210	
8BDGG-25□	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	
8BDGK-25□	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	
			50			3.80	0.380	1250	0.15	2.20	0.220	
			60			3.20	0.320	1500	0.13	1.80	0.180	
		3∅400	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∅415	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
			600	500	360	300	240	200	144	120	100	72	60	50	45	36	30	24	20	18	15	12	10
8BDG□ -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

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				8BDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	180	150	120	100	72	60
8BDG□-25G	8GBK□BMH	kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	8BDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	13.3 1.30	15.6 1.52	18.7 1.83	21.6 2.11	28.4 2.78	32.1 3.14	37.3 3.66	48.6 4.76	53.5 5.24

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
			500	417	300	250	200	167	120	100	83	60	50	42	38	30	25	20	17	15	13	10	8
8BDG□ -25G	8GBK□ BMH	kgfcm N.m	5.0 0.49	6.0 0.59	8.3 0.81	10.0 0.98	12.5 1.22	14.9 1.46	20.8 2.03	24.9 2.44	29.9 2.93	37.5 3.68	45.0 4.41	49.0 4.80	54.4 5.33	68.0 6.66	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				8BDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	150	125	100	83	60	50
8BDG□-25G	8GBK□BMH	kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	8BDG□-25W	8WD□BL/□BR/ □BRL	kgfcm N.m	17.2 1.69	20.2 1.98	24.3 2.38	28.0 2.74	36.8 3.60	41.6 4.07	48.4 4.74	63.0 6.17	69.3 6.79

- 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.

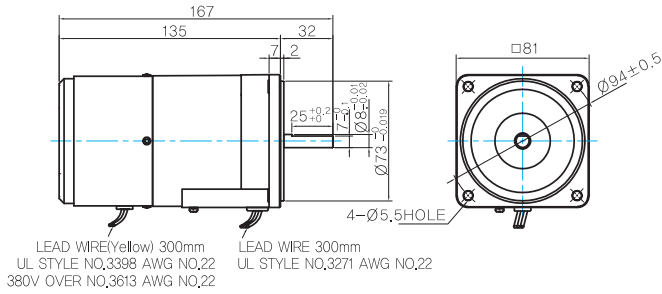
B AC Motors

Brake Motor 25W (□80mm)

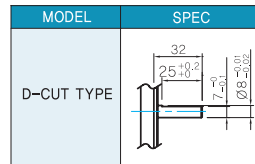
Dimensions

MOTOR ONLY

- MOTOR MODEL: 8BDD□-25 (NO FAN)

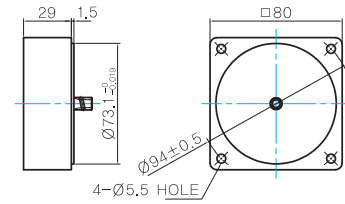


MOTOR OUTPUT SHAFT



INTER-DECIMAL GEARBOX

- MODEL: 8XD10□□

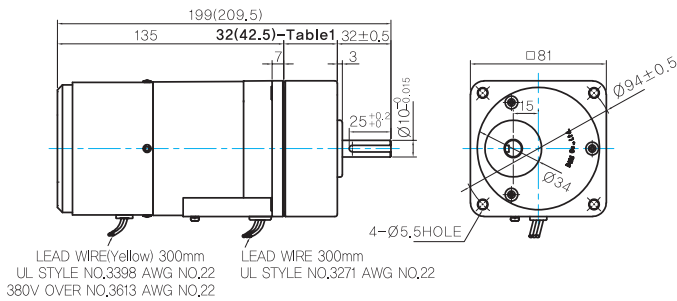


GEARED MOTOR

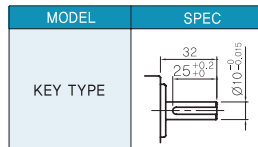
G TYPE GEARBOX

- MOTOR MODEL: 8BDG□-25G (NO FAN)

- GEARBOX MODEL: 8GBK□BMH



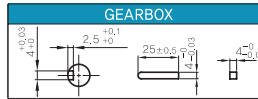
GEARBOX OUTPUT SHAFT



- 32(42.5)-Table1

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

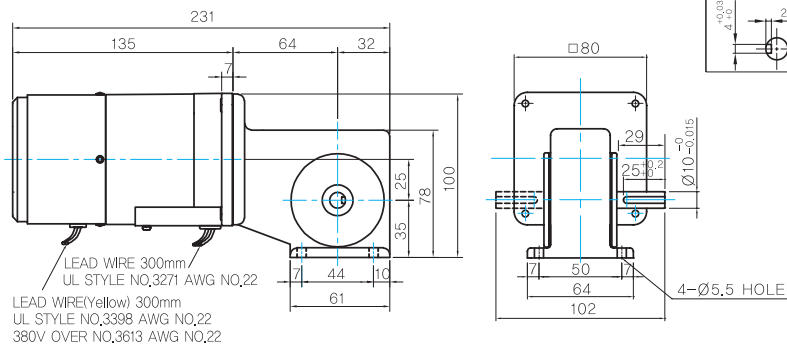
KEY SPEC



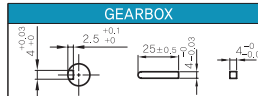
W TYPE GEARBOX

- MOTOR MODEL: 8BDG□-25W (NO FAN)

- GEARBOX MODEL: 8WD□BL/BR/BRL



KEY SPEC



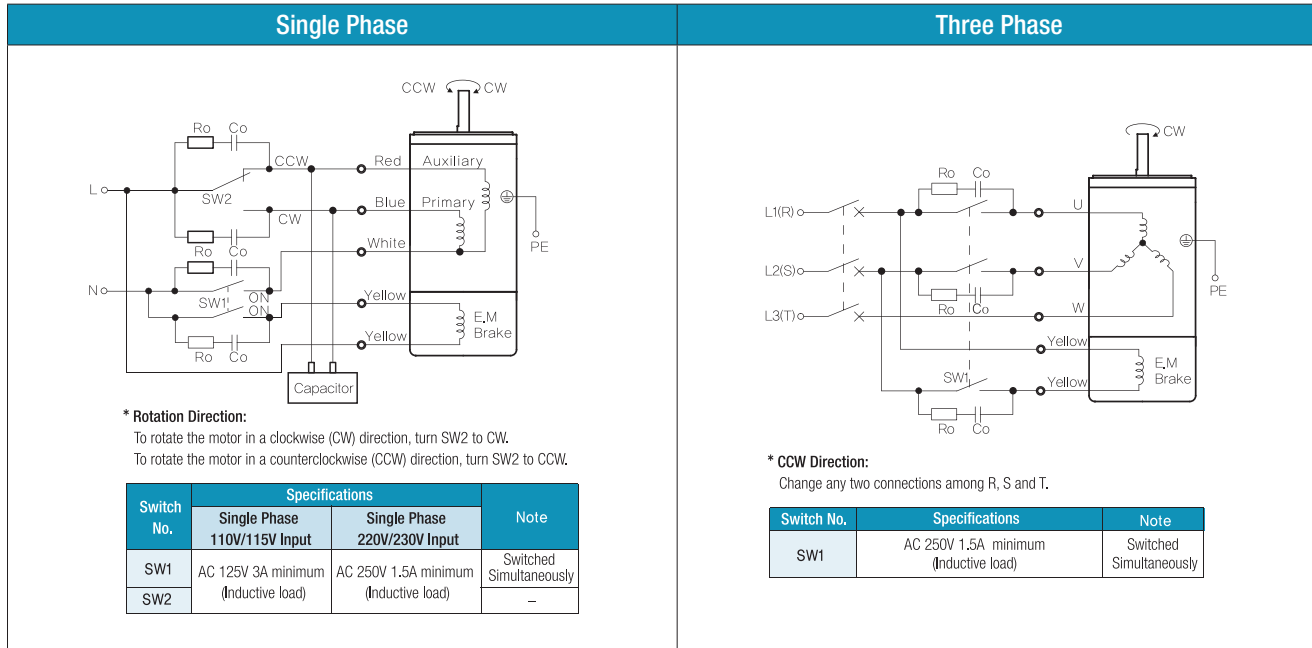
WEIGHT

PART	WEIGHT(Kg)
MOTOR	2.0
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) SW1 operates both motor and electromagnetic brake action.
- 4) The electromagnetic brake will be released and the motor will rotate when SW1 is switched simultaneously to ON. When SW1 is switched simultaneously to OFF, the motor stops immediately with the electromagnetic brake and holds the load.
- 5) If you wish to release the brake while the motor is stopped, apply voltage between the two brake lead wires (yellow).
- 6) Ro and Co indicate CR circuit for surge suppression. [Ro=5~200Ω, Co=0.1~0.2μF, 200WV (400WV)]