

Brake Motor 25W (□80mm)

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Motor Specification

Model 8BDG*-25□: Gear Type Shaft 8BDD*-25: D-Cut Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque		Rated Load			Capacitor μF / VAC	
						kgfcm	N.m	Speed r/min	Current A	Torque kgfcm N.m		
8BDGA-25□	25	1φ110	60	4	30min.	2.40	0.240	1550	0.73	1.62	0.162	10.0 / 250
8BDGD-25□	25	1φ220	60	4	30min.	2.40	0.240	1550	0.36	1.62	0.162	2.5 / 450
8BDGE-25□	25	1φ220	50	4	30min.	2.10	0.210	1250	0.28	2.00	0.200	2.0 / 450
		1φ240				2.50	0.250		0.30	2.10	0.210	
8BDGG-25□	25	3φ220	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	3φ380	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	
		3φ400	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	
		3φ415	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	
		3φ440	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.

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
8BDG□ -25G	8GBK□ BMH	r/min	600	500	360	300	240	200	144	120	100	72	60	50	45	36	30	24	20	18	15	12	10
		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
		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

Motor Model	Gearbox Model	Gear Ratio	200	250	300	360
8BDG□-25G	8GBK□BMH	r/min	9	7	6	5
		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
8BDG□-25W	8WD□BL/□BR/ □BRL	r/min	180	150	120	100	72	60	50	36	30
		kgfcm	13.3	15.6	18.7	21.6	28.4	32.1	37.3	48.6	53.5
		N.m	1.30	1.52	1.83	2.11	2.78	3.14	3.66	4.76	5.24

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
8BDG□ -25G	8GBK□ BMH	r/min	500	417	300	250	200	167	120	100	83	60	50	42	38	30	25	20	17	15	13	10	8
		kgfcm	5.0	6.0	8.3	10.0	12.5	14.9	20.8	24.9	29.9	37.5	45.0	49.0	54.4	68.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		N.m	0.49	0.59	0.81	0.98	1.22	1.46	2.03	2.44	2.93	3.68	4.41	4.80	5.33	6.66	7.84	7.84	7.84	7.84	7.84	7.84	7.84

Motor Model	Gearbox Model	Gear Ratio	200	250	300	360
8BDG□-25G	8GBK□BMH	r/min	7	6	5	5
		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
8BDG□-25W	8WD□BL/□BR/ □BRL	r/min	150	125	100	83	60	50	42	30	25
		kgfcm	17.2	20.2	24.3	28.0	36.8	41.6	48.4	63.0	69.3
		N.m	1.69	1.98	2.38	2.74	3.60	4.07	4.74	6.17	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.

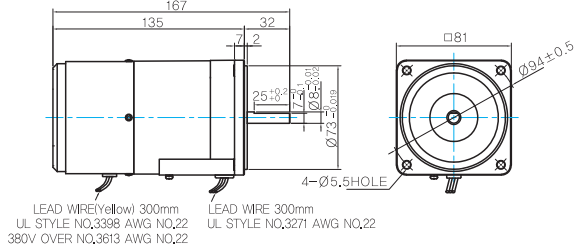
B AC Motors

Brake Motor 25W (□80mm)

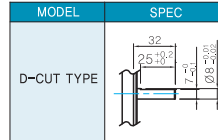
Dimensions

MOTOR ONLY

- MOTOR MODEL: 8BDD□-25 (NO FAN)

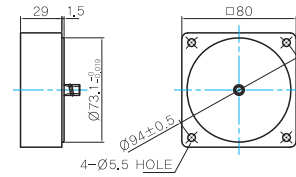


MOTOR OUTPUT SHAFT



INTER-DECIMAL GEARBOX

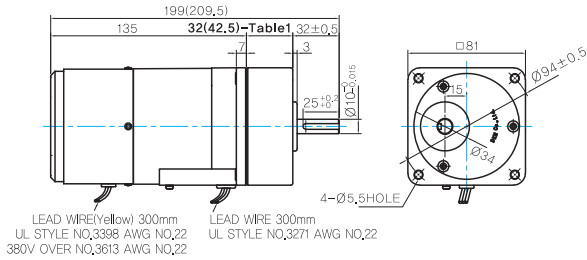
- MODEL: 8XD10□□



GEARED MOTOR

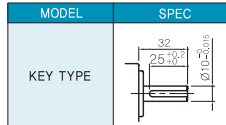
G TYPE GEARBOX

- MOTOR MODEL:
8BDG□-25G (NO FAN)



- GEARBOX MODEL:
8GBK□BMH

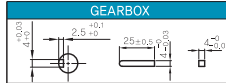
GEARBOX OUTPUT SHAFT



- 32(42.5)-Table1

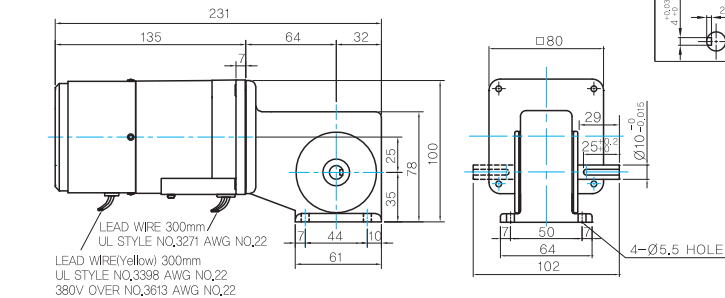
SIZE(mm)	GEAR RATIO
32	8GBK3BMH - 8GBK18BMH
42.5	8GBK25BMH - 8GBK360BMH

KEY SPEC



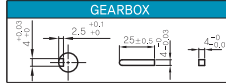
W TYPE GEARBOX

- MOTOR MODEL:
8BDG□-25W (NO FAN)



- GEARBOX MODEL:
8WD□BL/BR/BRL

KEY SPEC



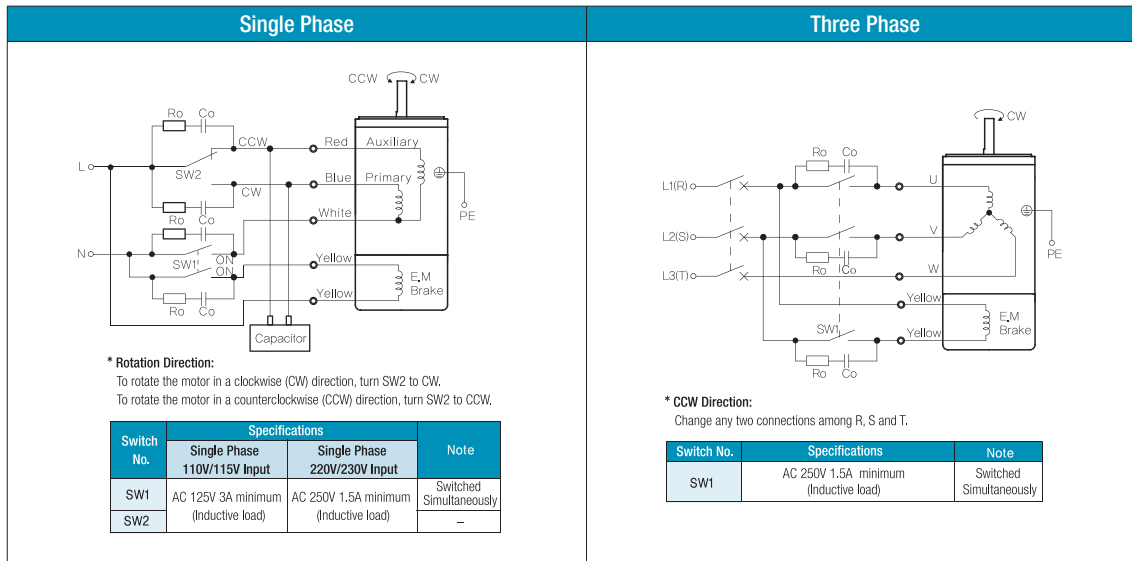
WEIGHT

	PART	WEIGHT(Kg)
GEAR BOX	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)]