

B AC Motors

Brake Motor 15W (□80mm)

15W Brake Motor 15W(□80mm)

Motor Specification

Model 8BDG*-15□: Gear Type Shaft 8BDD*-15: 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-15□	15	1φ110	60	4	30min.	1.55	0.155	1600	0.44	1.20	0.120	6.0 / 250
8BDGD-15□	15	1φ220	60	4	30min.	1.50	0.150	1600	0.25	1.00	0.100	1.5 / 450
8BDGE-15□	15	1φ220	50	4	30min.	1.25	0.125	1200	0.16	1.30	0.130	1.5 / 450
		1φ240				1.45	0.145		0.17	1.40	0.140	
8BDGG-15□	15	3φ220	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	
8BDGK-15□	15	3φ380	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	
		3φ400	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	
		3φ415	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	
		3φ440	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.

Max. Permissible Torque at Output Shaft of Gearbox

60Hz

Motor Model	Gearbox Model	Gear Ratio	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□-15G	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 N.m	3.0 0.29	3.6 0.35	5.0 0.49	6.0 0.59	7.5 0.73	9.0 0.88	12.5 1.22	14.9 1.46	17.9 1.76	22.5 2.21	27.0 2.65	29.4 2.88	32.6 3.20	40.8 4.00	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

Motor Model	Gearbox Model	Gear Ratio	Gear Ratio			
			200	250	300	360
8BDG□-15G	8GBK□BMH	r/min	9	7	6	5
		kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84

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

50Hz

Motor Model	Gearbox Model	Gear Ratio	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□-15G	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 N.m	3.5 0.34	4.2 0.41	5.8 0.57	7.0 0.68	8.7 0.85	10.5 1.02	14.5 1.42	17.4 1.71	20.9 2.05	26.3 2.57	31.5 3.09	34.3 3.36	38.1 3.73	47.6 4.66	57.1 5.60	71.4 7.00	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	Gear Ratio			
			200	250	300	360
8BDG□-15G	8GBK□BMH	r/min	7	6	5	5
		kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84

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

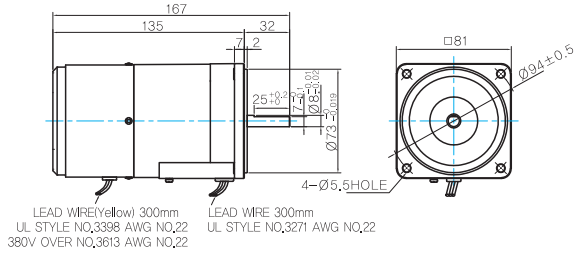
3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

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.

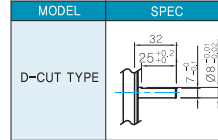
Dimensions

MOTOR ONLY

- MOTOR MODEL: 8BDD□-15 (NO FAN)

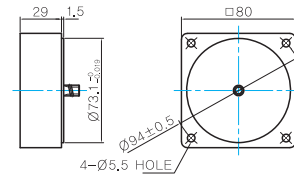


- MOTOR OUTPUT SHAFT



INTER-DECIMAL GEARBOX

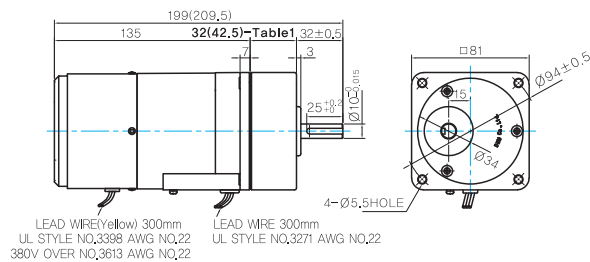
- MODEL: 8XD10□□



GEARED MOTOR

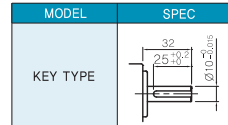
G TYPE GEARBOX

- MOTOR MODEL: 8BDG□-15G (NO FAN)



- GEARBOX MODEL: 8GBK□BMH

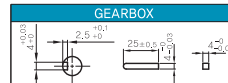
- GEARBOX OUTPUT SHAFT



- 32(42.5)-Table1

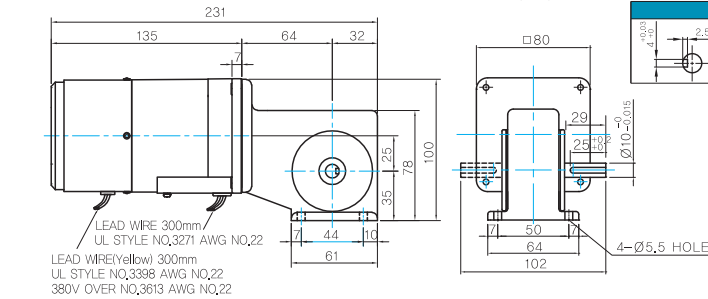
SIZE(mm)	GEAR RATIO
32	8GBK3BMH - 8GBK18BMH
42.5	8GBK25BMH - 8GBK360BMH

- KEY SPEC



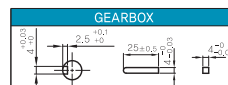
W TYPE GEARBOX

- MOTOR MODEL: 8BDG□-15W (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

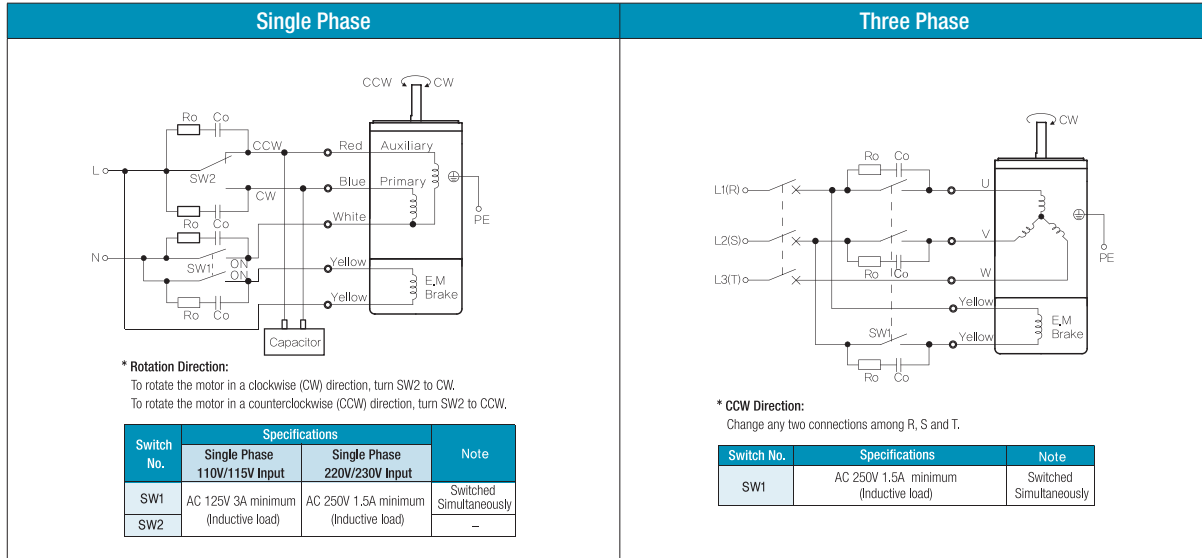
Motor Images



B AC Motors

Brake Motor 15W (□80mm)

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)]