B AC Motors

Clutch & Brake Motor 15W (□80mm)

15W Clutch & Brake Motor
15W(□80mm)

Motor Image

8CIDG□-15G+8GBK□BMH

Motor Specification

Model 8CIDG*-15G: Gear Type Shaft Lead Wire Type	Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque kgfcm	 N.m	Rated Load Speed r/min	 Current A	 Torque kgfcm	 N.m	Capacitor μF / VAC
8CIDG1(A)-15G	15	1ø110	60	4	Cont.	0.95	0.095	1600	0.54	0.92	0.092	3.5 / 250
8CIDG2(D)-15G	15	1ø220	60	4	Cont.	1.25	0.125	1600	0.23	0.92	0.092	1.2 / 450
8CIDGE-15G	15	1ø220	50	4	Cont.	1.05	0.105	1300	0.23	1.13	0.113	1.0 / 450
		1ø240				1.27	0.127		0.25	1.13	0.113	
8CIDG3(G)-15G	15	3ø220	50	4	Cont.	7.61	0.761	1350	0.29	1.09	0.109	–
			60			6.15	0.615	1600	0.26	0.92	0.092	
		3ø230	50	4	Cont.	8.25	0.825	1350	0.32	1.09	0.109	
			60			6.72	0.672	1600	0.28	0.92	0.092	
8CIDG4(K)-15G	15	3ø380	50	4	Cont.	5.70	0.570	1350	0.12	1.09	0.109	–
			60			4.53	0.453	1600	0.11	0.92	0.092	
		3ø400	50	4	Cont.	6.26	0.626	1350	0.13	1.09	0.109	
			60			5.03	0.503	1600	0.12	0.92	0.092	
8CIDG5(L)-15G	15	3ø415	50	4	Cont.	6.68	0.668	1350	0.14	1.09	0.109	–
			60			5.40	0.540	1600	0.12	0.92	0.092	
		3ø440	50	4	Cont.	7.39	0.739	1350	0.15	1.09	0.109	
			50			6.02	0.602	1600	0.13	0.92	0.092	

1) Enter the phase & voltage code in the place * within the motor model name.
2) The phase & voltage code A, D, E, G, K, L contain a built-in thermal protector.
3) For using clutch & brake motor, the gearbox has to be attached. (Output shaft of motor: Gear Type Shaft)
※ It is not possible to use an inverter for three phase 380~440V motor. When the 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	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120
		r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15
8CIDG*-15G	8GBK□ BMH	kgfcm	2.2	2.7	3.7	4.5	5.6	6.7	7.5	9.3	11.2	13.4	13.4	16.8	20.1	24.0	26.7	30.4	36.4	45.5	54.6	60.7	72.9
		N.m	0.22	0.26	0.37	0.44	0.55	0.66	0.73	0.91	1.10	1.31	1.32	1.65	1.97	2.35	2.61	2.98	3.57	4.46	5.36	5.95	7.14

Motor Model	Gearbox Model	Gear Ratio	150	180	200	250	300	360
		r/min	12	10	9	7	6	5
8CIDG*-15G	8GBK□ BMH	kgfcm	80.0	80.0	80.0	80.0	80.0	80.0
		N.m	7.84	7.84	7.84	7.84	7.84	7.84

50Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120
		r/min	500	417	300	250	200	167	150	120	100	83	75	60	50	42	37.5	30	25	20	17	15	12.5
8CIDG*-15G	8GBK□ BMH	kgfcm	2.6	3.2	4.4	5.3	6.6	7.9	8.8	11.0	13.1	15.8	15.8	19.8	23.7	28.4	31.6	35.7	42.9	53.6	64.3	71.4	80.0
		N.m	0.26	0.31	0.43	0.52	0.64	0.77	0.86	1.07	1.29	1.55	1.55	1.94	2.32	2.79	3.10	3.50	4.20	5.25	6.30	7.00	7.84

Motor Model	Gearbox Model	Gear Ratio	150	180	200	250	300	360
		r/min	10	8	7.5	6	5	4
8CIDG*-15G	8GBK□ BMH	kgfcm	80.0	80.0	80.0	80.0	80.0	80.0
		N.m	7.84	7.84	7.84	7.84	7.84	7.84

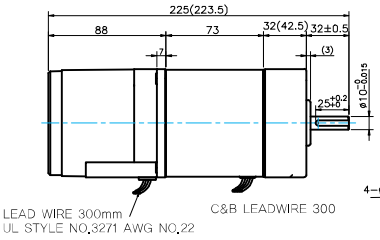
1) Enter the phase & voltage code in the place * within the motor model name. 2) Enter the gear ratio in the box (□) within the gearbox model name.
3) A colored background indicates gear shaft rotation in the same direction as the motor shaft: a white background indicates rotation in the opposite direction.
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

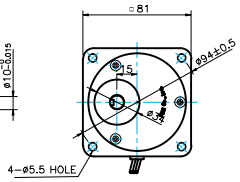
GEARED MOTOR

G TYPE GEARBOX

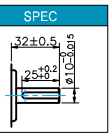
● MOTOR MODEL:
8CIDG□-15G



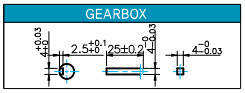
● GEARBOX MODEL:
8GBK□BMH



● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

● KEY SPEC

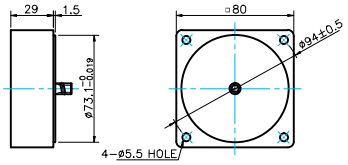


● 32(42.5)-Table1

SIZE(mm)	GEAR RATIO
32	8GBK3BMH – 8GBK18BMH
42.5	8GBK20BMH – 8GBK360BMH

INTER-DECIMAL GEARBOX

● MODEL:
8XD10□□

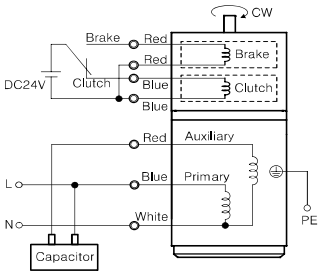


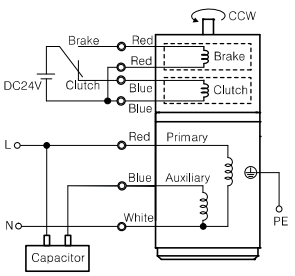
WEIGHT

PART		WEIGHT(Kg)
MOTOR		2.73
GEAR BOX	8GBK3BMH – 8GBK18BMH	0.56
	8GBK20BMH – 8GBK40BMH	0.65
	8GBK50BMH – 8GBK360BMH	0.72
	8XD10□□	0.45

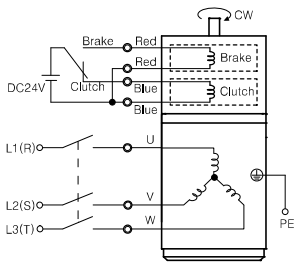
Connection Diagrams

Single Phase





Three Phase



* CCW Direction:
Change any two connections among R, S and T.

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.