B AC Motors

S.C. C&B Motor 25W (□80mm)

25W Speed Control Clutch & Brake Motor 25W(□80mm)

Motor Specification

Model 8CSDG□-25G: Gear Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque kgfcm	 N.m	Permissible Torque 1200r/min kgfcm	 N.m	Permissible Torque 90r/min kgfcm	 N.m	Capacitor μF / VAC
8CSDGA-25G	25	1ø110	60	4	Cont.	90-1700	1.40	0.140	1.55	0.155	0.70	0.070	6.0 / 250
8CSDGD-25G	25	1ø220	60	4	Cont.	90-1700	1.60	0.160	1.80	0.180	0.90	0.090	1.5 / 450
8CSDGE-25G	25	1ø220	50	4	Cont.	90-1400	1.00	0.100	1.50	0.150	0.50	0.050	1.3 / 450
		1ø240					1.20	0.120	1.80	0.180	0.50	0.050	

1) Enter the phase & voltage code in the box (□) within the motor model name.
2) All models contain a built-in thermal protector.
3) For using clutch & brake motor, Gearbox has to be attached. (Output shaft of motor: Gear Type Shaft)

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	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	250	300	360
8CSDG □-25G	8GBK □BMH	1200	110	60	kgfcm	3.9	4.6	6.4	7.7	9.6	11.6	16.1	19.3	23.2	29.1	34.9	37.9	42.2	52.7	63.2	79.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
					N.m	0.38	0.45	0.63	0.76	0.95	1.13	1.58	1.89	2.27	2.85	3.42	3.72	4.13	5.16	6.20	7.75	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
			220	60	kgfcm	5.8	6.9	9.6	11.5	14.4	17.3	24.0	28.8	34.6	39.2	47.1	46.4	51.6	64.5	77.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
					N.m	0.57	0.68	0.94	1.13	1.41	1.70	2.35	2.83	3.39	3.84	4.61	4.55	5.06	6.32	7.59	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
			220/240	50	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	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	7.84	7.84
		90	110	60	kgfcm	1.7	2.1	2.9	3.5	4.4	5.2	7.3	8.7	10.5	13.1	15.8	17.1	19.0	23.8	28.6	35.7	42.8	47.6	57.1	71.4	80.0	80.0	80.0	80.0	80.0
					N.m	0.17	0.20	0.28	0.34	0.43	0.51	0.71	0.85	1.02	1.29	1.54	1.68	1.87	2.33	2.80	3.50	4.20	4.66	5.60	7.00	7.84	7.84	7.84	7.84	7.84
			220	60	kgfcm	2.2	2.7	3.7	4.5	5.6	6.7	9.3	11.2	13.4	16.9	20.3	22.0	24.5	30.6	36.7	45.9	55.1	61.2	73.4	80.0	80.0	80.0	80.0	80.0	80.0
					N.m	0.22	0.26	0.37	0.44	0.55	0.66	0.92	1.10	1.32	1.65	1.98	2.16	2.40	3.00	3.60	4.50	5.40	6.00	7.20	7.84	7.84	7.84	7.84	7.84	7.84
			220/240	50	kgfcm	1.2	1.5	2.1	2.5	3.1	3.7	5.2	6.2	7.5	9.4	11.3	12.2	13.6	17.0	20.4	25.5	30.6	34.0	40.8	51.0	61.2	61.0	76.3	80.0	80.0
					N.m	0.12	0.15	0.20	0.24	0.31	0.37	0.51	0.61	0.73	0.92	1.10	1.20	1.33	1.67	2.00	2.50	3.00	3.33	4.00	5.00	6.00	5.98	7.47	7.84	7.84

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.

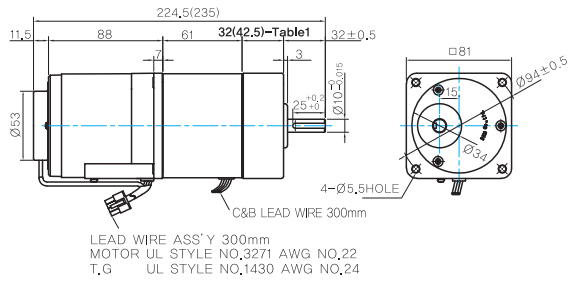
Dimensions

GEARED MOTOR

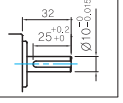
G TYPE GEARBOX

● MOTOR MODEL:
8CSDG□-25G (NO FAN)

● GEARBOX MODEL:
8GBK□BMH



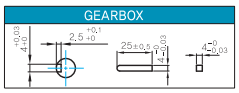
● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

● 32(42.5)-Table1

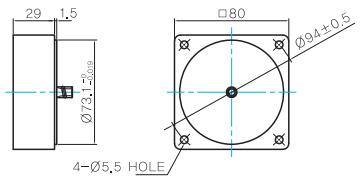
SIZE(mm)	GEAR RATIO
32	8GBK3BMH - 8GBK18BMH
42.5	8GBK25BMH - 8GBK360BMH

● KEY SPEC



INTER-DECIMAL GEARBOX

● MODEL: 8XD10□□



WEIGHT

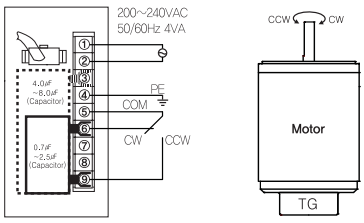
PART		WEIGHT(Kg)
MOTOR		1.7
CLUTCH & BRAKE		1.05
GEAR BOX	8GBK3BMH – 8GBK18BMH	0.48
	8GBK25BMH – 8GBK30BMH	0.61
	8GBK36BMH – 8GBK180BMH	0.67
	8GBK200BMH – 8GBK360BMH	0.63
	8XD10□□	0.44

Motor Image

8CSDG□-25G+8GBK□BMH

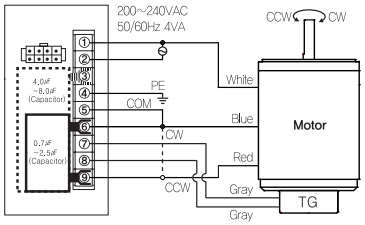
Connection Diagrams

FX1000A – Connector Type

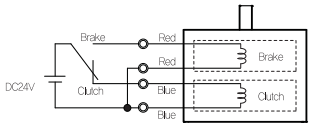


Direction: Clockwise COM+CW, Counterclockwise COM+CCW
Capacitor: Connect 3-9 or 6-9, according to its capacity

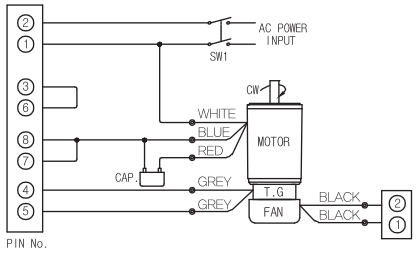
FX1000A – Terminal Type



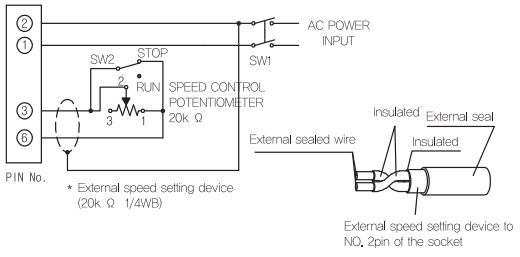
Clutch & Brake Connection Diagram



DSKM-Using Internal Volume



DSKM-Using External Volume



1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation. Now you can adjust the main volume to control the output speed of motor.
2) The direction of motor rotation is as viewed from the shaft end of the motor.
3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.
4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.