

B AC Motors

Clutch & Brake Motor 25W (□ 80mm)

25W Clutch & Brake Motor
25W(□ 80mm)

 **Motor Image**



Motor Specification

Model 8CIDG*-25G: Gear 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		
Lead Wire Type												
8CIDG1(A)-25G	25	1φ110	60	4	Cont.	1.63	0.163	1600	0.55	1.55	0.155	6.0 / 250
8CIDG2(D)-25G	25	1φ220	60	4	Cont.	1.59	0.159	1550	0.27	1.60	0.160	1.5 / 450
8CIDGE-25G	25	1φ220	50	4	Cont.	1.57	0.157	1250	0.23	1.95	0.195	1.5 / 450
		1φ240				1.87	0.187		0.25	1.95	0.195	
8CIDG3(G)-25G	25	3φ220	50	4	Cont.	7.61	0.761	1350	0.29	1.85	0.185	-
			60			6.15	0.615	1600	0.26	1.55	0.155	
		3φ230	50	4	Cont.	8.25	0.825	1350	0.32	1.85	0.185	
			60			6.72	0.672	1600	0.28	1.55	0.155	
8CIDG4(K)-25G	25	3φ380	50	4	Cont.	5.70	0.570	1300	0.13	1.90	0.190	-
			60			4.53	0.453	1550	0.12	1.60	0.160	
		3φ400	50	4	Cont.	6.26	0.626	1300	0.14	1.90	0.190	
			60			5.03	0.503	1550	0.13	1.60	0.160	
8CIDG5(L)-25G	25	3φ415	50	4	Cont.	6.68	0.668	1300	0.15	1.90	0.190	-
			60			5.40	0.540	1550	0.13	1.60	0.160	
		3φ440	50	4	Cont.	7.39	0.739	1300	0.16	1.90	0.190	
			60			6.02	0.602	1550	0.14	1.60	0.160	

- 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 r/min	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120
			kgfcm N.m	3.7 0.36	4.4 0.43	6.2 0.60	7.4 0.72	9.2 0.91	11.1 1.09	12.3 1.21	15.4 1.51	18.5 1.81	22.2 2.17	22.2 2.18	27.8 2.72	33.3 3.27	40.0 3.92	44.4 4.35	50.2 4.92	60.3 5.91	80.0 7.84	80.0 7.84	80.0 7.84
8CIDG*-25G	8GBK□ BMH	kgfcm N.m	3.7 0.36	4.4 0.43	6.2 0.60	7.4 0.72	9.2 0.91	11.1 1.09	12.3 1.21	15.4 1.51	18.5 1.81	22.2 2.17	22.2 2.18	27.8 2.72	33.3 3.27	40.0 3.92	44.4 4.35	50.2 4.92	60.3 5.91	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84

Motor Model	Gearbox Model	Gear Ratio r/min	150	180	200	250	300	360
			kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84
8CIDG*-25G	8GBK□ BMH	kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	

50Hz

Motor Model	Gearbox Model	Gear Ratio r/min	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120
			kgfcm N.m	4.4 0.43	5.3 0.52	7.3 0.72	8.8 0.86	11.0 1.07	13.1 1.29	14.6 1.43	18.3 1.79	21.9 2.15	26.3 2.58	26.3 2.58	32.9 3.23	39.5 3.87	47.4 4.65	52.7 5.16	59.5 5.83	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84
8CIDG*-25G	8GBK□ BMH	kgfcm N.m	4.4 0.43 <td>5.3 0.52 <td>7.3 0.72 <td>8.8 0.86 <td>11.0 1.07 <td>13.1 1.29 <td>14.6 1.43 <td>18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	5.3 0.52 <td>7.3 0.72 <td>8.8 0.86 <td>11.0 1.07 <td>13.1 1.29 <td>14.6 1.43 <td>18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	7.3 0.72 <td>8.8 0.86 <td>11.0 1.07 <td>13.1 1.29 <td>14.6 1.43 <td>18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	8.8 0.86 <td>11.0 1.07 <td>13.1 1.29 <td>14.6 1.43 <td>18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	11.0 1.07 <td>13.1 1.29 <td>14.6 1.43 <td>18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	13.1 1.29 <td>14.6 1.43 <td>18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td>	14.6 1.43 <td>18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td></td>	18.3 1.79 <td>21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td></td>	21.9 2.15 <td>26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td></td>	26.3 2.58 <td>26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td></td>	26.3 2.58 <td>32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td></td>	32.9 3.23 <td>39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td></td>	39.5 3.87 <td>47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td></td>	47.4 4.65 <td>52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td></td>	52.7 5.16 <td>59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td></td>	59.5 5.83 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td></td>	80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td></td>	80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td></td>	80.0 7.84 <td>80.0 7.84 <td>80.0 7.84</td> </td>	80.0 7.84 <td>80.0 7.84</td>	80.0 7.84

Motor Model	Gearbox Model	Gear Ratio r/min	150	180	200	250	300	360
			kgfcm N.m	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84	80.0 7.84
8CIDG*-25G	8GBK□ BMH	kgfcm N.m	80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 </td></td></td></td>	80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 </td></td></td>	80.0 7.84 <td>80.0 7.84 <td>80.0 7.84 </td></td>	80.0 7.84 <td>80.0 7.84 </td>	80.0 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 the gear shaft rotation in the same direction as the motor shaft; a white background indicates the 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

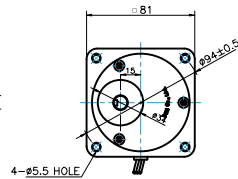
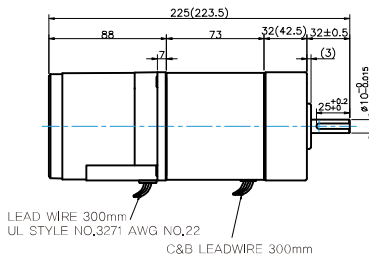
G TYPE GEARBOX

- MOTOR MODEL:
8CIDG□-25G

- GEARBOX MODEL:
8GBK□BMH

GEARBOX OUTPUT SHAFT

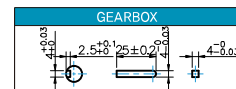
32(42.5)-Table1



MODEL	SPEC
KEY TYPE	

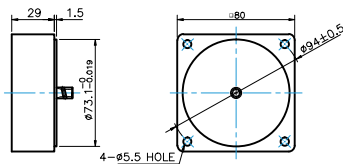
SIZE(mm)	GEAR RATIO
32	8GBK3BMH - 8GBK18BMH
42.5	8GBK20BMH - 8GBK360BMH

KEY SPEC



INTER-DECIMAL GEARBOX

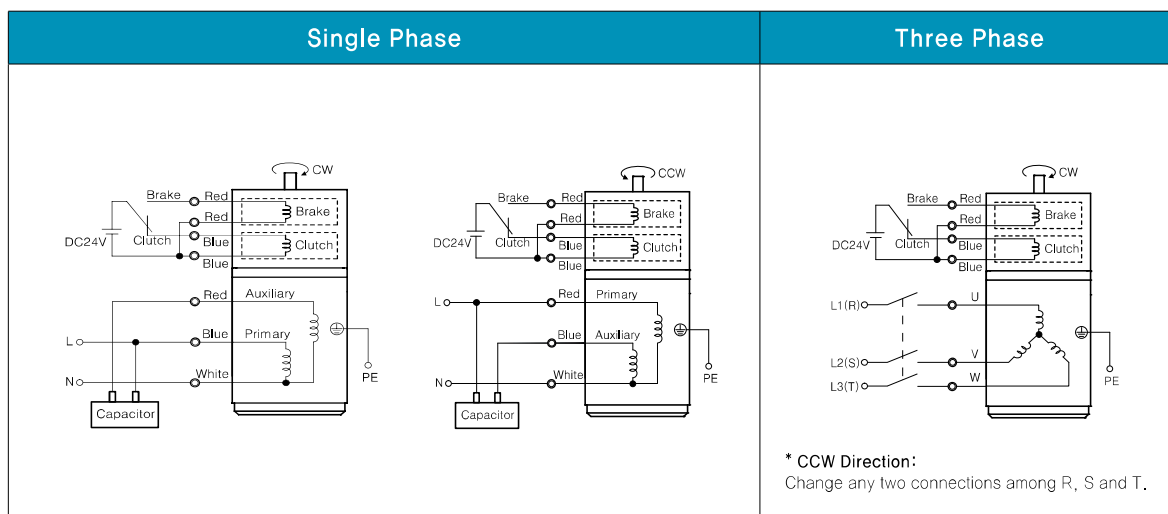
- MODEL:
8XD10□□



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



- The direction of motor rotation is as viewed from the shaft end of the motor.
- CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- 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.