B AC Motors

Clutch & Brake Motor 40W (□90mm)

40W Clutch & Brake Motor 40W(□90mm)

Motor Image

9CIDG□-40P+9PBK□BH	9CIDG□-40G+9GBK□BMH
	

Motor Specification

Model 9CIDG*-40G: 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
9CIDG1(A)-40□	40	1ø110	60	4	Cont.	2.60	0.260	1600	0.80	2.50	0.244	10.0 / 250
9CIDG2(D)-40□	40	1ø220	60	4	Cont.	2.60	0.260	1600	0.45	2.50	0.244	2.5 / 450
9CIDGE-40□	40	1ø220	50	4	Cont.	2.10	0.210	1300	0.33	3.00	0.300	2.0 / 450
		1ø240				2.60	0.260		0.36	3.00	0.300	
9CIDG3(G)-40□	40	3ø220	50	4	Cont.	9.90	0.990	1350	0.33	2.90	0.289	-
			60			7.90	0.790	1600	0.31	2.50	0.244	
		3ø230	50	4	Cont.	10.80	1.080	1350	0.35	2.90	0.289	
			60			8.50	0.850	1600	0.33	2.50	0.244	
9CIDG4(K)-40□	40	3ø380	50	4	Cont.	10.20	1.020	1350	0.19	2.90	0.289	-
			60			8.00	0.800	1600	0.18	2.50	0.244	
		3ø400	50	4	Cont.	11.10	1.110	1350	0.20	2.90	0.289	
			60			8.80	0.880	1600	0.19	2.50	0.244	
9CIDG5(L)-40□	40	3ø415	50	4	Cont.	10.00	1.000	1350	0.17	2.90	0.289	-
			60			8.00	0.800	1600	0.16	2.50	0.244	
		3ø440	50	4	Cont.	11.10	1.110	1350	0.18	2.90	0.289	
			60			8.90	0.890	1600	0.17	2.50	0.244	

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	2	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
		r/min	900	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
9CIDG*-40G	9GBK□BMH	kgfcm	3.9	5.9	7.1	9.9	11.8	14.8	17.8	19.7	24.7	29.6	35.5	35.6	44.4	53.3	64.0	71.1	80.4	96.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		N.m	0.39	0.58	0.70	0.97	1.16	1.45	1.74	1.93	2.42	2.90	3.48	3.48	4.35	5.23	6.27	6.97	7.87	9.45	9.80	9.80	9.80	9.80	9.80	9.80	9.80

Motor Model	Gearbox Model	Gear Ratio	2	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
		r/min	900	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
9CIDG*-40P	9PBK□BH 9PFK□BH	kgfcm	3.9	5.9	7.1	9.9	11.8	14.8	17.8	19.7	22.2	26.7	32.0	35.6	40.2	48.2	57.9	64.3	80.4	96.4	107.7	129.3	143.7	172.4	200.0	200.0	200.0
		N.m	0.39	0.58	0.70	0.97	1.16	1.45	1.74	1.93	2.18	2.61	3.14	3.48	3.94	4.72	5.67	6.30	7.87	9.45	10.56	12.67	14.08	16.90	19.60	19.60	19.60

50Hz

Motor Model	Gearbox Model	Gear Ratio	2	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
		r/min	750	500	417	300	250	200	167	150	120	100	83	75	60	50	42	38	30	25	20	17	15	13	10	8	7
9CIDG*-40G	9GBK□BMH	kgfcm	4.7	7.0	8.4	11.7	14.0	17.5	21.0	23.4	29.2	35.1	42.1	42.1	52.7	63.2	75.8	84.3	95.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		N.m	0.46	0.69	0.82	1.15	1.37	1.72	2.06	2.29	2.86	3.44	4.12	4.13	5.16	6.19	7.43	8.26	9.33	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80

Motor Model	Gearbox Model	Gear Ratio	2	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
		r/min	750	500	417	300	250	200	167	150	120	100	83	75	60	50	42	37.5	30	25	20	17	15	12.5	10	8	7.5
9CIDG*-40P	9PBK□BH 9PFK□BH	kgfcm	4.7	7.0	8.4	11.7	14.0	17.5	21.0	23.4	26.3	31.6	37.9	42.1	47.6	57.1	68.6	76.2	95.2	114.3	127.7	153.2	170.3	200.0	200.0	200.0	200.0
		N.m	0.46	0.69	0.82	1.15	1.37	1.72	2.06	2.29	2.58	3.10	3.72	4.13	4.67	5.60	6.72	7.47	9.33	11.20	12.51	15.02	16.69	19.60	19.60	19.60	19.60

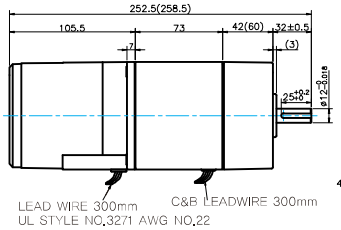
1) Enter the phase & voltage code in the place * within the motor model name. 2) Enter the gear ratio in the box (□) within the gearbox model name.
3) A colored background indicates the gear shaft rotation in the same direction as the motor shaft: a white background indicates the rotation in the opposite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

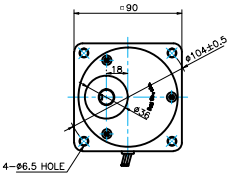
GEARED MOTOR

G TYPE GEARBOX

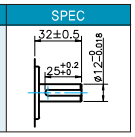
● MOTOR MODEL:
9CIDG□-40G



● GEARBOX MODEL:
9GBK□BMH



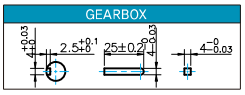
● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

● 42(60)-Table1

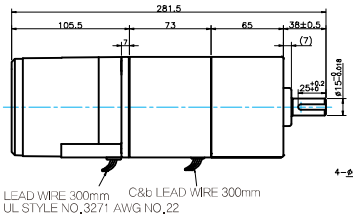
SIZE(mm)	GEAR RATIO
42	9GBK2BMH ~ 9GBK18BMH
60	9GBK20BMH ~ 9GBK200BMH

● KEY SPEC

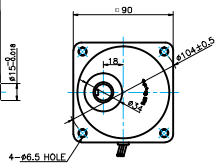


P TYPE GEARBOX

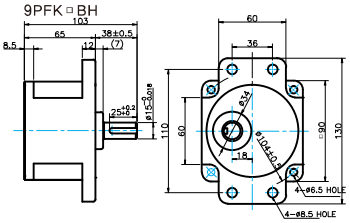
● MOTOR MODEL:
9CIDG□-40P



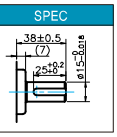
● GEARBOX MODEL:
9PBK□BH



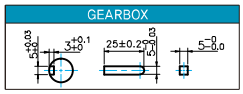
● GEARBOX MODEL:
9PFK□BH



● GEARBOX OUTPUT SHAFT

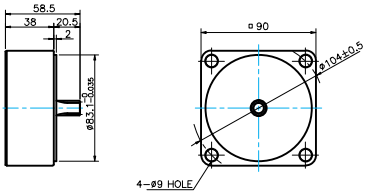
MODEL	SPEC
KEY TYPE 9PBK□BH 9PFK□BH	

● KEY SPEC



INTER-DECIMAL GEARBOX

● MODEL:
9XD10□□



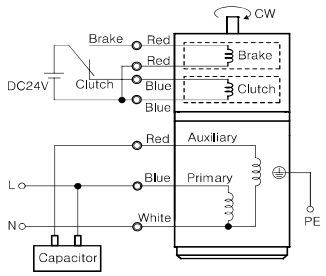
WEIGHT

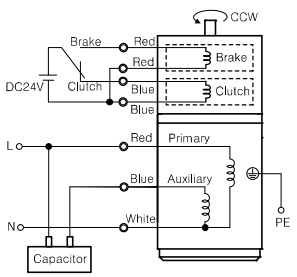
PART		WEIGHT(Kg)
MOTOR		3.8
GEAR BOX	9GBK2BMH ~ 9GBK18BMH	0.78
	9GBK20BMH ~ 9GBK40BMH	1.1
	9GBK50BMH ~ 9GBK200BMH	1.2
	9PB(F)K2BH ~ 9PB(F)K10BH	1.28

PART		WEIGHT(Kg)
MOTOR		3.8
GEAR BOX	9PB(F)K12.5BH ~ 9PB(F)K20BH	1.3
	9PB(F)K25BH ~ 9PB(F)K60BH	1.45
	9PB(F)K75BH ~ 9PB(F)K200BH	1.47
	9XD10□□	0.6

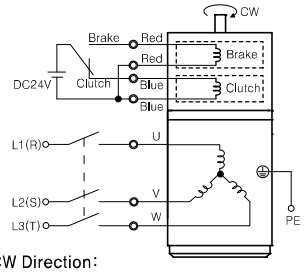
Connection Diagrams

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.