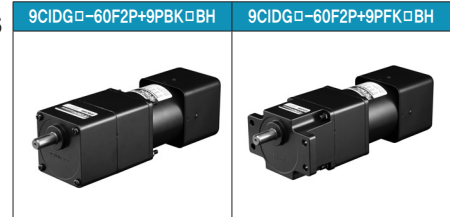


B AC Motors

Clutch & Brake Motor 60W (□90mm)

60W Clutch & Brake Motor
60W(□90mm)

Motor Images



Motor Specification

Model 9CIDG□-60F2P: 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		
9CIDGA-60F2P	60	1∅110	60	4	Cont.	3.40	0.340	1600	1.40	4.60	0.460	16.0 / 250
9CIDGD-60F2P	60	1∅220	60	4	Cont.	4.20	0.420	1600	0.63	4.60	0.460	4.0 / 450
9CIDGE-60F2P	60	1∅220	50	4	Cont.	3.40	0.340	1300	0.48	4.80	0.480	3.5 / 450
		1∅240				4.00	0.400		0.54	5.40	0.540	
9CIDGG-60F2P	60	3∅220	50	4	Cont.	15.00	1.500	1350	0.59	4.60	0.460	-
			60			12.80	1.280	1600	0.49	4.20	0.420	
9CIDGK-60F2P	60	3∅380	50	4	Cont.	17.00	1.700	1350	0.33	4.80	0.480	-
			60			13.80	1.380	1600	0.29	4.60	0.460	
		3∅400	50	4	Cont.	18.60	1.860	1350	0.36	5.20	0.520	
			60			15.20	1.520	1600	0.30	5.00	0.500	
		3∅415	50	4	Cont.	20.00	2.000	1350	0.40	5.60	0.560	
			60			16.20	1.620	1600	0.33	5.20	0.520	
		3∅440	50	4	Cont.	22.00	2.200	1350	0.44	6.00	0.600	
			60			18.20	1.820	1600	0.36	5.80	0.580	

- 1) Enter the phase & voltage code in the 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

60Hz

Motor Model	Gearbox Model	Gear Ratio r/min	2	3	3.6	5	6	7.5	9	12.5	15	18	20	25	30	36	40
			kgfcm	900	600	500	360	300	240	200	144	120	100	90	72	60	50
9CIDG□ -60F2P	9PBK□BH 9PFK□BH	kgfcm	7.0	10.5	12.5	17.4	20.9	26.1	31.4	39.4	47.3	56.7	57.1	71.4	85.7	102.8	114.2
		N.m	0.68	1.02	1.23	1.71	2.05	2.56	3.07	3.86	4.63	5.56	5.60	7.00	8.40	10.08	11.20

Motor Model	Gearbox Model	Gear Ratio r/min	50	60	75	90	100	120	150	180	200
			kgfcm	36	30	24	20	18	15	12	10
9CIDG□ -60F2P	9PBK□BH 9PFK□BH	kgfcm	142.8	171.4	192.2	200.0	200.0	200.0	200.0	200.0	200.0
		N.m	13.99	16.79	18.83	19.60	19.60	19.60	19.60	19.60	19.60

50Hz

Motor Model	Gearbox Model	Gear Ratio r/min	2	3	3.6	5	6	7.5	9	12.5	15	18	20	25	30	36	40
			kgfcm	750	500	417	300	250	200	167	120	100	83	75	60	50	42
9CIDG□ -60F2P	9PBK□BH 9PFK□BH	kgfcm	8.6	12.9	15.5	21.6	25.9	32.4	38.8	48.8	58.5	70.2	70.7	88.4	106.1	127.3	141.4
		N.m	0.85	1.27	1.52	2.11	2.54	3.17	3.81	4.78	5.73	6.88	6.93	8.66	10.40	12.48	13.86

Motor Model	Gearbox Model	Gear Ratio r/min	50	60	75	90	100	120	150	180	200
			kgfcm	30	25	20	17	15	13	10	8
9CIDG□ -60F2P	9PBK□BH 9PFK□BH	kgfcm	176.8	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
		N.m	17.33	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60

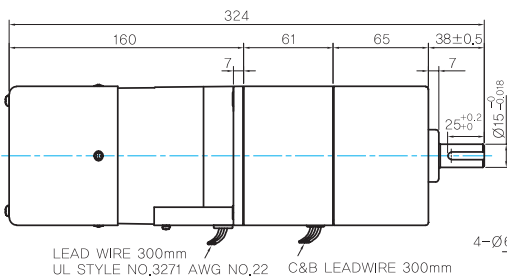
- 1) Enter the phase & voltage code in the box (□) within the motor model name.
- 2) Enter the gear ratio in the box (□) within the Gearbox model name.
- 3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite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

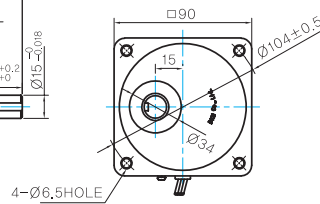
P TYPE GEARBOX

- MOTOR MODEL:
9CIDG□-60F2P (POWERFUL FAN)



LEAD WIRE 300mm
UL STYLE NO.3271 AWG NO.22 C&B LEADWIRE 300mm

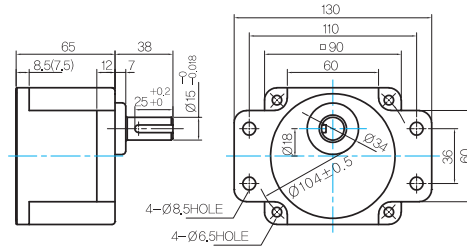
- GEARBOX MODEL:
9PBK□BH



GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	
9PBK□BH 9PFK□BH	

- GEARBOX MODEL:
9PFK□BH

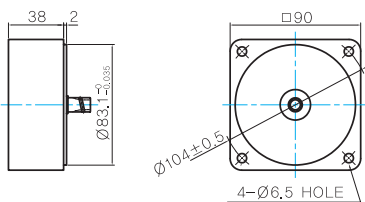


KEY SPEC

GEARBOX

INTER-DECIMAL GEARBOX

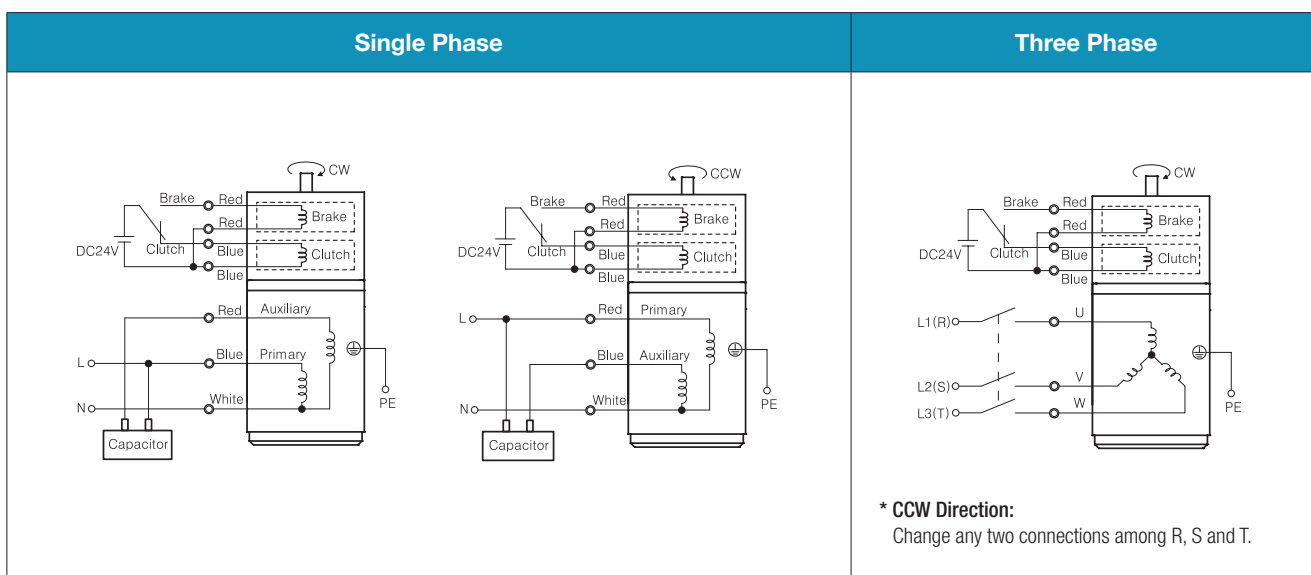
- MODEL:
9XD10□□



WEIGHT

PART	WEIGHT(Kg)	
MOTOR	2,6	
CLUTCH & BRAKE	1,35	
GEAR BOX	9PB(F)K2BH - 9PB(F)K18BH	1,3
	9PB(F)K20BH - 9PB(F)K180B	1,4
	9XD10□□	0,5

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) 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.