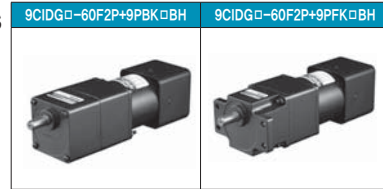


# B AC Motors

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		Rated Load			Capacitor μF / VAC	
						kgfcm	N.m	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
		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
9CIDG□ -60F2P	9PBK□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
	9PFK□BH	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
9CIDG□ -60F2P	9PBK□BH	kgfcm	142.8	171.4	192.2	200.0	200.0	200.0	200.0	200.0	200.0
	9PFK□BH	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
9CIDG□ -60F2P	9PBK□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
	9PFK□BH	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
9CIDG□ -60F2P	9PBK□BH	kgfcm	176.8	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
	9PFK□BH	N.m	17.33	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60

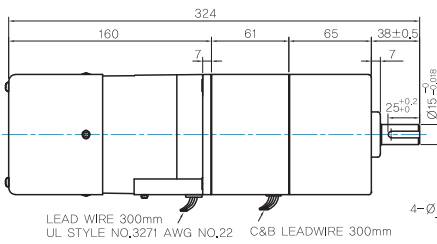
- 1) Enter the phase & voltage code in the box (□) within the motor model name.
- 2) Enter the gear ratio in the box (□) within the Gearbox model name.
- 3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite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

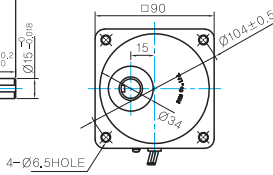
### GEARED MOTOR

#### P TYPE GEARBOX

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



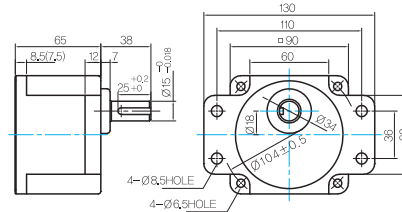
- GEARBOX MODEL:  
9PBK□BH



- GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	
9PBK□BH	
9PFK□BH	

- GEARBOX MODEL:  
9PFK□BH

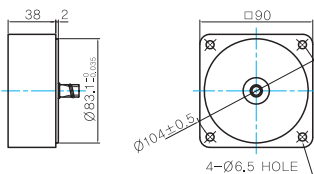


- KEY SPEC

GEARBOX

#### INTER-DECIMAL GEARBOX

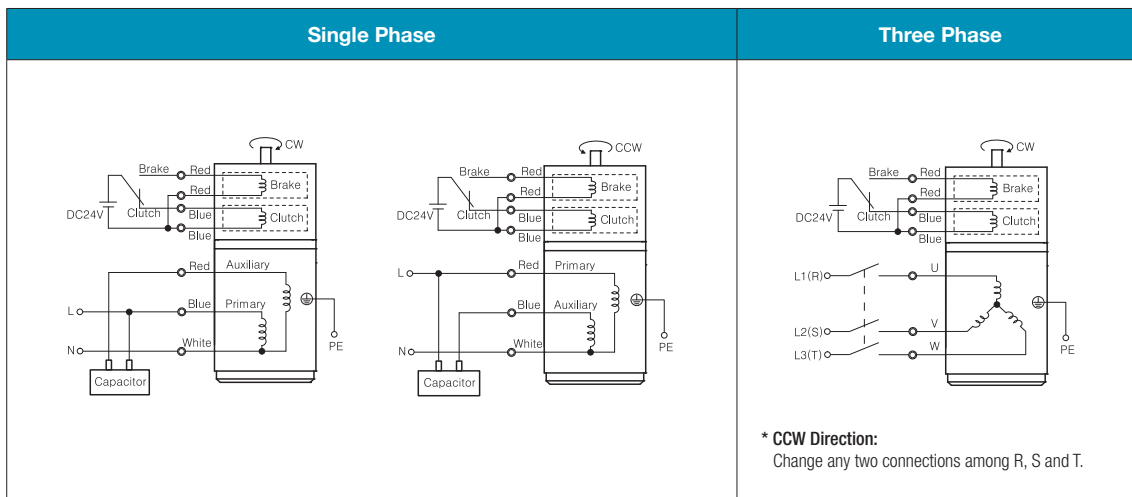
- MODEL:  
9XD10□□



#### 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



- 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.