

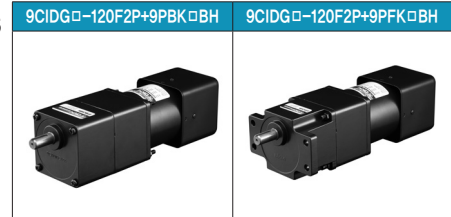
B AC Motors

Clutch & Brake Motor 120W (□90mm)

120W

Clutch & Brake Motor
120W(□90mm)

Motor Images



Motor Specification

Model 9CIDG□-120F2P: 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-120F2P	120	1∅110	60	4	Cont.	6.60	0.660	1600	2.00	7.40	0.740	25.0 / 250
9CIDGD-120F2P	120	1∅220	60	4	Cont.	6.00	0.600	1600	1.00	7.60	0.760	6.0 / 450
9CIDGE-120F2P	120	1∅220	50	4	Cont.	6.40	0.640	1250	0.90	9.40	0.940	6.0 / 450
		1∅240				7.80	0.780		1.00	10.20	1.020	
9CIDGG-120F2P	120	3∅220	50	4	Cont.	22.00	2.200	1300	0.82	9.20	0.920	-
			60			20.00	2.000	1550	0.78	7.80	0.780	
9CIDGK-120F2P	120	3∅380	50	4	Cont.	25.00	2.500	1300	0.48	9.00	0.900	-
			60			20.00	2.000	1550	0.43	8.00	0.800	
		3∅400	50	4	Cont.	27.40	2.740	1300	0.53	9.80	0.980	
			60			21.80	2.180	1550	0.45	8.60	0.860	
		3∅415	50	4	Cont.	29.80	2.980	1300	0.57	10.00	1.000	
			60			23.80	2.380	1600	0.44	7.80	0.780	
		3∅440	50	4	Cont.	32.00	3.200	1350	0.64	8.80	0.880	
			60			26.80	2.680	1600	0.48	8.60	0.860	

- 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
			900	600	500	360	300	240	200	144	120	100	90	72	60	50	45
9CIDG□ -120F2P	9PBK□BH 9PFK□BH	kgfcm	12.6	18.9	22.7	31.5	37.8	47.3	56.8	71.3	85.5	102.6	103.4	129.2	155.0	186.0	200.0
		N.m	1.24	1.85	2.23	3.09	3.71	4.64	5.56	6.98	8.38	10.05	10.13	12.66	15.19	18.23	19.60

Motor Model	Gearbox Model	Gear Ratio r/min	50	60	75	90	100	120	150	180	200
			36	30	24	20	18	15	12	10	9
9CIDG□ -120F2P	9PBK□BH 9PFK□BH	kgfcm	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
		N.m	19.60	19.60	19.60	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
			750	500	417	300	250	200	167	120	100	83	75	60	50	42	38
9CIDG□ -120F2P	9PBK□BH 9PFK□BH	kgfcm	16.3	24.4	29.3	40.7	48.8	61.0	73.2	101.7	122.0	146.4	162.7	200.0	200.0	200.0	200.0
		N.m	1.59	2.39	2.87	3.99	4.78	5.98	7.17	9.96	11.96	14.35	15.94	19.60	19.60	19.60	19.60

Motor Model	Gearbox Model	Gear Ratio r/min	50	60	75	90	100	120	150	180	200
			30	25	20	17	15	13	10	8	7.5
9CIDG□ -120F2P	9PBK□BH 9PFK□BH	kgfcm	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
		N.m	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60

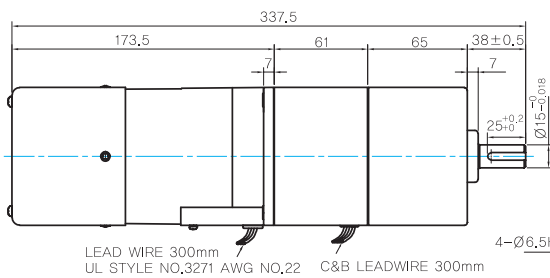
- 1) Enter the phase & voltage code in the box (□) within the motor model name.
- 2) Enter the gear ratio in the box (□) within the Gearbox model name.
- 3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite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

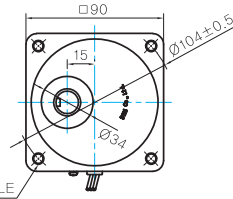
GEARED MOTOR

P TYPE GEARBOX

- MOTOR MODEL:
9CIDG□-120F2P (POWERFUL FAN)



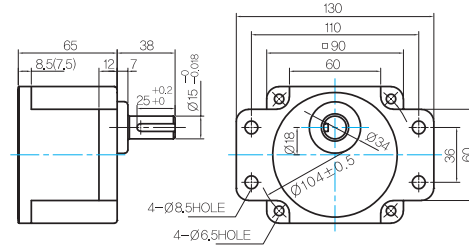
- GEARBOX MODEL:
9PBK□BH



- GEARBOX OUTPUT SHAFT

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

- GEARBOX MODEL:
9PFK□BH

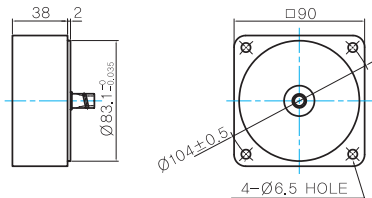


- KEY SPEC

GEARBOX

INTER-DECIMAL GEARBOX

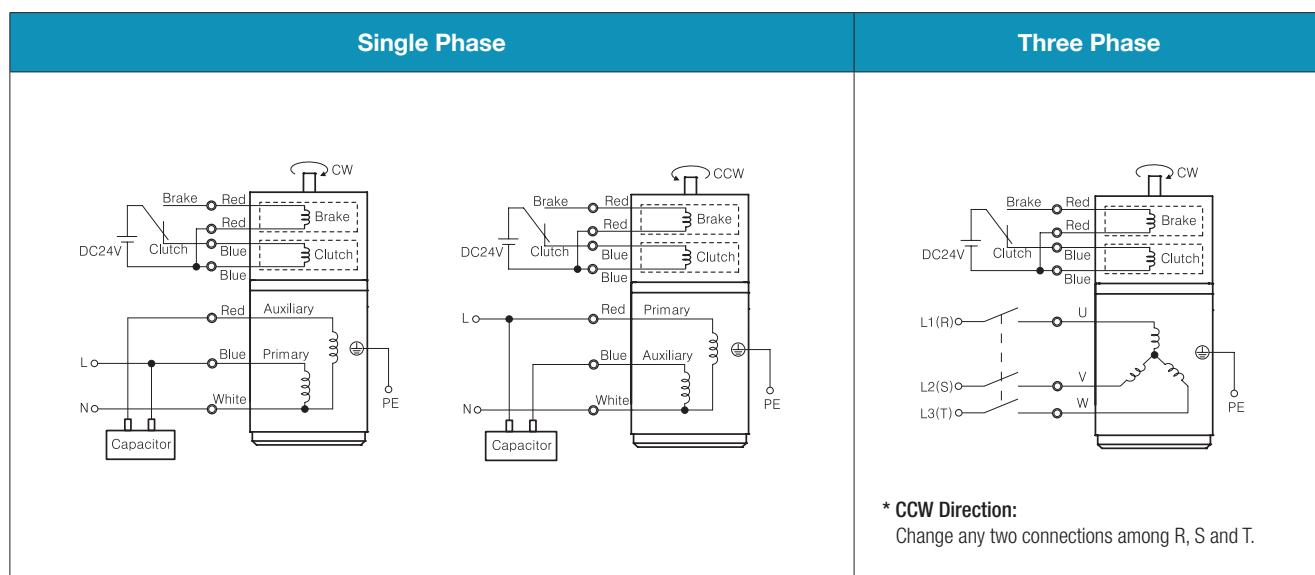
- MODEL:
9XD10□□



WEIGHT

PART	WEIGHT(Kg)	
MOTOR	3,0	
CLUTCH & BRAKE	1,35	
GEAR BOX	9PB(F)K2BH - 9PB(F)K18BH	1,3
	9PB(F)K20BH - 9PB(F)K200B	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.