

120W

Reversible Motor
120W(□ 90mm)

Motor 사양

Model 9RDG*~120F□(-T): Gear Type Shaft 9RDD*~120F(-T): D-Cut Type Shaft 9RDK*~120F(-T): Key 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	Terminal Box Type												
9RD◇1(A)-120F□	9RD◇1(A)-120F□-T	120	1ø 110	60	4	30min.	7.11	0.711	1550	2.50	7.54	0.754	30.0 / 250
9RD◇2(D)-120F□	9RD◇2(D)-120F□-T	120	1ø 220	60	4	30min.	6.42	0.642	1600	1.08	7.31	0.731	6.5 / 450
9RD◇E-120F□	9RD◇E-120F□-T	120	1ø 220	50	4	30min.	6.28	0.628	1250	1.10	9.35	0.935	6.5 / 450
			1ø 240				7.50	0.750		1.21	9.35	0.935	

1) 모터 모델명 * 자리에는 전압코드가 들어갑니다.

2) 모터 모델명 □ 자리에는 모터 출력축 타입명이 들어갑니다.

(G: Gear Type / D: D-Cut Type / K: Key Type) Gear Type Shaft는 감속기 부착용이며 D-Cut 및 Key Type Shaft는 모터 단독 사용 시의 출력축입니다.

3) 모터 출력축 타입이 Gear Type일 경우, □ 안에는 부착되는 감속기의 모델 타입명이 들어갑니다.

4) 전압코드 A, D, E는 TP(Thermal Protector) 부착 사양입니다.

감속기 부착 시 최대허용토크

60Hz

Motor Model	Gearbox Model	감속비	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
9RDG*~120FP	9PBK□BH 9PFK□BH	kgfcm N.m	11.8 1.16	17.8 1.74	21.3 2.09	29.6 2.90	35.5 3.48	44.4 4.35	53.3 5.22	59.2 5.80	66.7 6.53	80.0 7.84	96.0 9.41	106.7 10.45	120.5 11.81	144.6 14.17	173.6 17.01	192.9 18.90	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
9RDG*~120FH	9HBK□BH 9HFK□BH	kgfcm N.m	-	17.8 1.74	21.3 2.09	29.6 2.90	35.5 3.48	44.4 4.35	53.3 5.22	59.2 5.80	66.7 6.53	80.0 7.84	96.0 9.41	106.7 10.45	120.5 11.81	144.6 14.17	173.6 17.01	192.9 18.90	241.1 23.62	289.3 28.35	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40

Motor Model	Gearbox Model	감속비 r/min	10	12	15	18	25	30	36	50	60
9RDG*~120FW	9WD □ BL/ □ BR/ □ BRL	kgfcm	59.9	70.1	84.4	97.3	127.8	144.6	153.1	142.9	122.4
		N.m	5.87	6.87	8.27	9.54	12.53	14.17	15.00	14.00	12.00

Motor Model	Gearbox Model	감속비 r/min	5	7.5	10	15	20	25	30	40	50	60	80
9RDG*~120FWH	9WHD □ -030	kgfcm	25.4	36.8	47.3	66.6	84.2	96.4	112.2	137.9	157.8	163.3	132.7
		N.m	2.49	3.61	4.64	6.53	8.25	9.45	11.00	13.52	15.46	16.00	13.00

50Hz

Motor Model	Gearbox Model	감속비	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
9RDG*~120FP	9PBK □ BH 9PFK □ BH	kgfcm N.m	15.1 1.48	22.7 2.23	27.3 2.67	37.9 3.71	45.4 4.45	56.8 5.57	68.2 6.68	75.7 7.42	85.3 8.36	102.4 10.03	122.9 12.04	136.5 13.38	154.3 15.12	185.1 18.14	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
9RDG*~120FH	9HBK □ BH 9HFK □ BH	kgfcm N.m	—	22.7 2.23	27.3 2.67	37.9 3.71	45.4 4.45	56.8 5.57	68.2 6.68	75.7 7.42	85.3 8.36	102.4 10.03	122.9 12.04	136.5 13.38	154.3 15.12	185.1 18.14	222.2 21.77	246.9 24.19	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40

Motor Model	Gearbox Model	감속비 r/min	10	12	15	18	25	30	36	50	60
9RDG*~120FW	9WD □ BL/ □ BR/ □ BRL	kgfcm	76.7	89.8	108.0	124.5	163.6	170.0	153.1	142.9	122.4
		N.m	7.51	8.80	10.58	12.21	16.04	16.66	15.00	14.00	12.00

Motor Model	Gearbox Model	감속비 r/min	5	7.5	10	15	20	25	30	40	50	60	80
9RDG*~120FWH	9WHD □ -030	kgfcm	30.1	43.6	56.1	79.0	99.7	114.3	133.0	163.5	173.5	163.3	132.7
		N.m	2.95	4.28	5.50	7.74	9.77	11.20	13.03	16.02	17.00	16.00	13.00

1) 모터 모델명 * 자리에는 전압코드가 들어갑니다.

2) 감속기 모델명 □ 안에는 감속비가 들어갑니다.

3) 위의 표에서 색칠된 범위의 감속비를 선택했을 때 감속기의 출력축은 모터의 출력축과 같은 방향으로 회전합니다.

흰색 바탕 범위의 감속비에서는 감속기 출력축은 모터 출력축의 회전방향과 반대방향으로 회전합니다.

4) 회전속도(r/min)는 모터의 동기회전속도(50Hz: 500r/min, 60Hz: 1800r/min)를 감속비로 나누어 계산합니다.

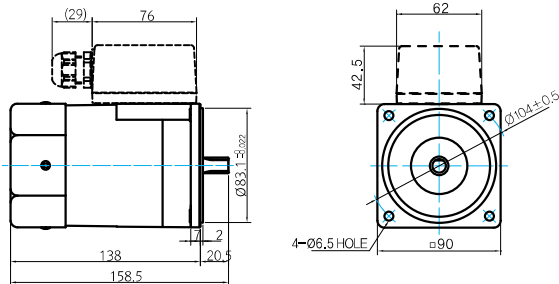
실제 회전속도는 부하의 크기에 따라 표시보다 2~20% 정도 느립니다.

Reversible Motor 120W(□ 90mm)

Dimensions

MOTOR ONLY

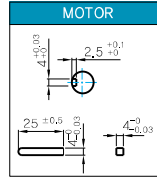
- MOTOR MODEL:
9RDD□-120F(-T) (GENERAL FAN)



MOTOR OUTPUT SHAFT

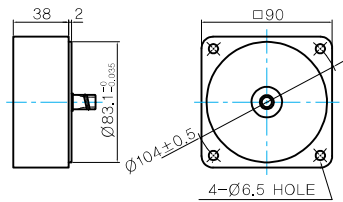
MODEL	SPEC
D-CUT TYPE	37 30 ^{+0.1} ₋₀ 11 ^{+0.1} ₋₀
9RDD□-120F	
KEY TYPE	37 25 ^{+0.1} ₋₀ 12 ^{+0.1} ₋₀
9RDK□-120F	

KEY SPEC



중간감속기

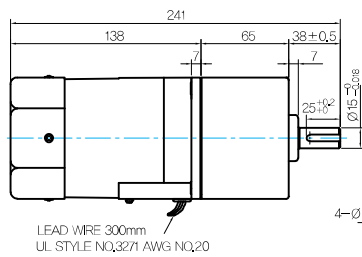
- MODEL: 9XD10□□



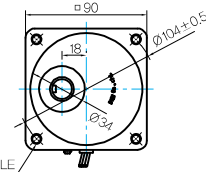
GEARED MOTOR

P TYPE GEARBOX

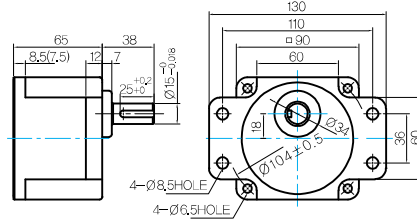
- MOTOR MODEL:
9RDG□-120FP (GENERAL FAN)



- GEARBOX MODEL:
9PBK□BH



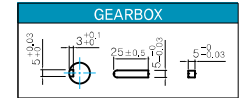
- GEARBOX MODEL:
9PFK□BH



GEARBOX OUTPUT SHAFT

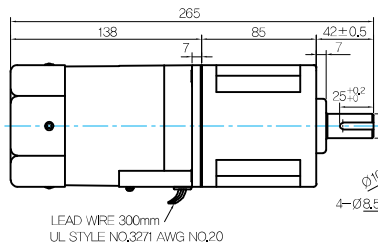
MODEL	SPEC
KEY TYPE	38 25 ^{+0.1} ₋₀ 17 ^{+0.1} ₋₀
9PBK□BH	
9PFK□BH	

KEY SPEC

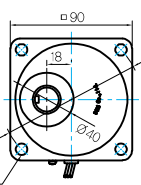


H TYPE GEARBOX

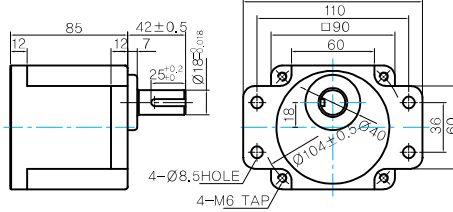
- MOTOR MODEL:
9RDG□-120FH (GENERAL FAN)



- GEARBOX MODEL:
9HBK□BH



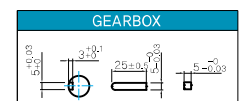
- GEARBOX MODEL:
9HFK□BH



GEARBOX OUTPUT SHAFT

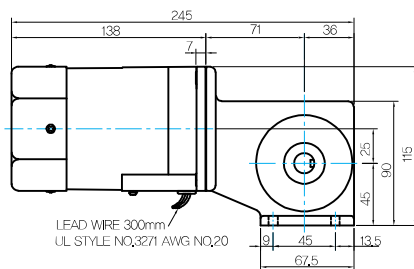
MODEL	SPEC
KEY TYPE	42 25 ^{+0.1} ₋₀ 17 ^{+0.1} ₋₀
9HBK□BH	
9HFK□BH	

KEY SPEC

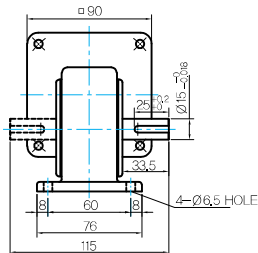


W TYPE GEARBOX

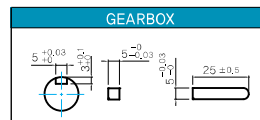
- MOTOR MODEL:
9RDG□-120FW (GENERAL FAN)



- GEARBOX MODEL:
9WD□BL/BR/BRL

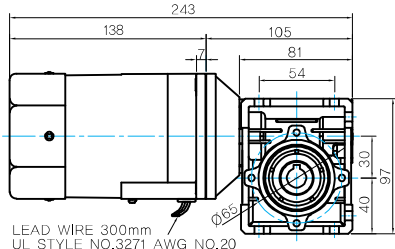


KEY SPEC

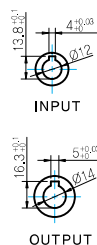
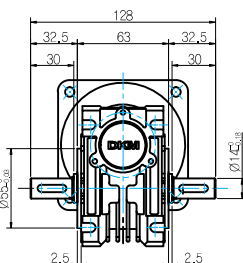


WH TYPE GEARBOX

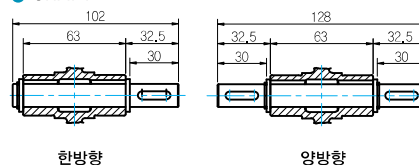
● MOTOR MODEL:
9RDD□-120FWH (GENERAL FAN)



● GEARBOX MODEL:
9WHD□-030



● SHAFT

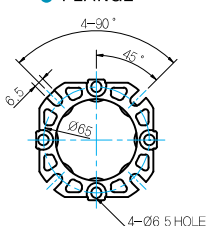


WEIGHT

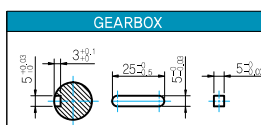
PART	WEIGHT(kg)
MOTOR	3.05
9PB(F)K2BH - 9PB(F)K10BH	1.28
9PB(F)K12.5BH - 9PB(F)K20BH	1.30
9PB(F)K25BH - 9PB(F)K60BH	1.45
9PB(F)K75BH - 9PB(F)K200BH	1.47
9HB(F)K3BH - 9HB(F)K10BH	1.62
9HB(F)K12.5BH - 9HB(F)K20BH	1.68
9HB(F)K25BH - 9HB(F)K60BH	1.73
9HB(F)K75BH - 9HB(F)K200BH	1.78
9WD□BL/BR/BRL	1.00
9WHD□-030	1.20
9XD10□□	0.60

*출력 FLANGE와 SHAFT는 별매입니다.

● FLANGE



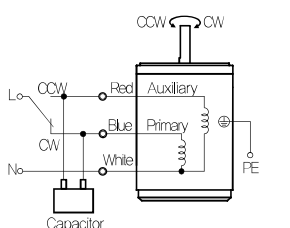
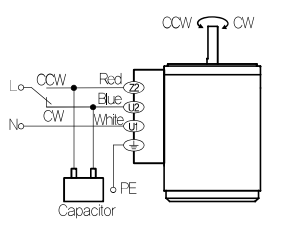
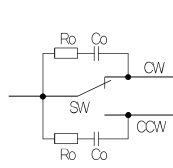
● KEY SPEC



Motor Images

9RDD□-120F	9RDD□-120F-T	9RDG□-120FP+9PBK□BH	9RDG□-120FP+9PFK□BH
9RDG□-120FH+9HBK□BH	9RDG□-120FH+9HFK□BH	9RDG□-120FW+9WD□BL	9RDG□-120FWH+9WHD□

결선도

Lead Wire Type	Terminal Box Type							
		 <table border="1"><thead><tr><th>기호</th><th>점접용량</th></tr></thead><tbody><tr><td>SW</td><td>AC125V 5A 이상 또는 AC250V 5A 이상 (유도부하)</td></tr><tr><td>Ro, Co</td><td>Ro=5~200Ω Co=0.1~0.2μF, 200WV (400WV)</td></tr></tbody></table> * 정역전 전환 스위치에는 점접보호를 위해 그림과 같이 Sugar 전압 흡수용 CR회로를 접속해 사용하여 주십시오.	기호	점접용량	SW	AC125V 5A 이상 또는 AC250V 5A 이상 (유도부하)	Ro, Co	Ro=5~200Ω Co=0.1~0.2μF, 200WV (400WV)
기호	점접용량							
SW	AC125V 5A 이상 또는 AC250V 5A 이상 (유도부하)							
Ro, Co	Ro=5~200Ω Co=0.1~0.2μF, 200WV (400WV)							

- 회전방향은 모터 축 측에서 본 방향을 나타냅니다. 2) CW는 시계방향, CCW는 반시계방향입니다.
- 모터 운전중에 회전방향 전환이 가능합니다. 스위치를 CW 쪽으로 하면 모터는 시계방향으로, CCW 쪽으로 하면 반시계방향으로 회전합니다.