

120W

Speed Control
Brake Motor
120W(□ 90mm)

Motor 사양

Model		Output	Voltage	Frequency	Poles	Duty	Speed Range	Starting Torque		Permissible Torque				Capacitor	
										1200r/min		90r/min			
Connector Type								W	V	Hz	r/min	kgfcm	N.m		kgfcm
9SBDG*~120F2□-C(L): Gear Type Shaft 9SBDD*~120F2-C(L): D-Cut Type Shaft 9SBDK*~120F2-C(L): Key Type Shaft															
9SBD◇1(A)-120F2□-C		9SBD◇1(A)-120F2□-L	120	1 ø 110	60	4	30min.	90-1700	7.80	0.780	8.20	0.820	3.60	0.360	30.0 / 250
9SBD◇2(D)-120F2□-C		9SBD◇2(D)-120F2□-L	120	1 ø 220	60	4	30min.	90-1700	7.60	0.760	8.00	0.800	3.30	0.330	7.0 / 450
9SBD◇E-120F2□-C		9SBD◇E-120F2□-L	120	1 ø 220	50	4	30min.	90-1400	6.00	0.600	7.50	0.750	3.30	0.330	7.0 / 450
				1 ø 240					6.50	0.650	8.00	0.800	3.80	0.380	

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

Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	2	3	3.6	5	6	7.5	9	10	12.5	15	18	20
9SBDG*~120F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm N.m	13.3 1.30	19.9 1.95	23.9 2.34	33.2 3.25	39.9 3.91	49.8 4.88	59.8 5.86	66.4 6.51	74.8 7.33	89.8 8.80	107.7 10.56	119.7 11.73
			220	60	kgfcm N.m	13.0 1.27	19.4 1.91	23.3 2.29	32.4 3.18	38.9 3.81	48.6 4.76	58.3 5.72	64.8 6.35	73.0 7.15	87.6 8.58	105.1 10.30	116.8 11.45
			220/ 240	50	kgfcm N.m	12.2 1.19	18.2 1.79	21.9 2.14	30.4 2.98	36.5 3.57	45.6 4.47	54.7 5.36	60.8 5.95	68.4 6.71	82.1 8.05	98.6 9.66	109.5 10.73
		90	110	60	kgfcm N.m	5.8 0.57	8.7 0.86	10.5 1.03	14.6 1.43	17.5 1.71	21.9 2.14	26.2 2.57	29.2 2.86	32.9 3.22	39.4 3.86	47.3 4.64	52.6 5.15
			220	60	kgfcm N.m	5.3 0.52	8.0 0.79	9.6 0.94	13.4 1.31	16.0 1.57	20.0 1.96	24.1 2.36	26.7 2.62	30.1 2.95	36.1 3.54	43.4 4.25	48.2 4.72
			220/ 240	50	kgfcm N.m	5.3 0.52	8.0 0.79	9.6 0.94	13.4 1.31	16.0 1.57	20.0 1.96	24.1 2.36	26.7 2.62	30.1 2.95	36.1 3.54	43.4 4.25	48.2 4.72

Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	25	30	36	40	50	60	75	90	100	120	150	180	200
9SBDG*~120F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm N.m	135.3 13.26	162.4 15.91	194.8 19.09	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
			220	60	kgfcm N.m	132.0 12.94	158.4 15.52	190.1 18.63	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
			220/ 240	50	kgfcm N.m	123.8 12.13	148.5 14.55	178.2 17.46	198.0 19.40	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
		90	110	60	kgfcm N.m	59.4 5.82	71.3 6.99	85.5 8.38	95.0 9.31	118.8 11.64	142.6 13.97	159.3 15.61	191.2 18.73	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220	60	kgfcm N.m	54.5 5.34	65.3 6.40	78.4 7.68	87.1 8.54	108.9 10.67	130.7 12.81	146.0 14.31	175.2 17.17	194.7 19.08	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220/ 240	50	kgfcm N.m	54.5 5.34	65.3 6.40	78.4 7.68	87.1 8.54	108.9 10.67	130.7 12.81	146.0 14.31	175.2 17.17	194.7 19.08	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60

Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30
9SBDG*~120F2H	9HBK□BH 9HFK□BH	1200	110	60	kgfcm N.m	19.9 1.95	23.9 2.34	33.2 3.25	39.9 3.91	49.8 4.88	59.8 5.86	66.4 6.51	74.8 7.33	89.8 8.80	107.7 10.56	119.7 11.73	135.3 13.26	162.4 15.91
			220	60	kgfcm N.m	19.4 1.91	23.3 2.29	32.4 3.18	38.9 3.81	48.6 4.76	58.3 5.72	64.8 6.35	73.0 7.15	87.6 8.58	105.1 10.30	116.8 11.45	132.0 12.94	158.4 15.52
			220/ 240	50	kgfcm N.m	18.2 1.79	21.9 2.14	30.4 2.98	36.5 3.57	45.6 4.47	54.7 5.36	60.8 5.95	68.4 6.71	82.1 8.05	98.6 9.66	109.5 10.73	123.8 12.13	148.5 14.55
		90	110	60	kgfcm N.m	8.7 0.86	10.5 1.03	14.6 1.43	17.5 1.71	21.9 2.14	26.2 2.57	29.2 2.86	32.9 3.22	39.4 3.86	47.3 4.64	52.6 5.15	59.4 5.82	71.3 6.99
			220	60	kgfcm N.m	8.0 0.79	9.6 0.94	13.4 1.31	16.0 1.57	20.0 1.96	24.1 2.36	26.7 2.62	30.1 2.95	36.1 3.54	43.4 4.25	48.2 4.72	54.5 5.34	65.3 6.40
			220/ 240	50	kgfcm N.m	8.0 0.79	9.6 0.94	13.4 1.31	16.0 1.57	20.0 1.96	24.1 2.36	26.7 2.62	30.1 2.95	36.1 3.54	43.4 4.25	48.2 4.72	54.5 5.34	65.3 6.40

S.C. Brake Motor 120W (□ 90mm)

감속기 부착 시 최대허용토크

Motor Model	Gearbox Model	회전 속도 r/min	전압 V	주파수 Hz	감속비	36	40	50	60	75	90	100	120	150	180	200
9SBDG*~ 120F2H	9HBK □ BH 9HFK □ BH	1200	110	60	kgfcm N.m	194.8 19.09	216.5 21.22	270.6 26.52	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
			220	60	kgfcm N.m	190.1 18.63	211.2 20.70	264.0 25.87	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
			220/ 240	50	kgfcm N.m	178.2 17.46	198.0 19.40	247.5 24.26	297.0 29.11	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
		90	110	60	kgfcm N.m	85.5 8.38	95.0 9.31	118.8 11.64	142.6 13.97	159.3 15.61	191.2 18.73	212.4 20.82	254.9 24.98	300.0 29.40	300.0 29.40	300.0 29.40
			220	60	kgfcm N.m	78.4 7.68	87.1 8.54	108.9 10.67	130.7 12.81	146.0 14.31	175.2 17.17	194.7 19.08	233.6 22.90	292.1 28.62	300.0 29.40	300.0 29.40
			220/ 240	50	kgfcm N.m	78.4 7.68	87.1 8.54	108.9 10.67	130.7 12.81	146.0 14.31	175.2 17.17	194.7 19.08	233.6 22.90	292.1 28.62	300.0 29.40	300.0 29.40

Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	10	12	15	18	25	30	36	50	60
9SBDG*~ 120F2W	9WD □ BL/ □ BR/ □ BRL	1200	110	60	kgfcm N.m	67.2 6.59	78.7 7.71	94.7 9.28	109.2 10.70	143.5 14.06	162.4 15.91	153.1 15.00	142.9 14.00	122.4 12.00
			220	60	kgfcm N.m	65.6 6.43	76.8 7.53	92.4 9.06	106.6 10.44	140.0 13.72	158.4 15.52	153.1 15.00	142.9 14.00	122.4 12.00
			220/240	50	kgfcm N.m	61.5 6.03	72.0 7.06	86.6 8.49	99.9 9.79	131.3 12.86	148.5 14.55	153.1 15.00	142.9 14.00	122.4 12.00
		90	110	60	kgfcm N.m	29.5 2.89	34.6 3.39	41.6 4.07	48.0 4.70	63.0 6.17	71.3 6.99	82.9 8.13	108.0 10.58	122.4 12.00
			220	60	kgfcm N.m	27.1 2.65	31.7 3.10	38.1 3.74	44.0 4.31	57.8 5.66	65.3 6.40	76.0 7.45	99.0 9.70	122.4 12.00
			220/240	50	kgfcm N.m	27.1 2.65	31.7 3.10	38.1 3.74	44.0 4.31	57.8 5.66	65.3 6.40	76.0 7.45	99.0 9.70	122.4 12.00

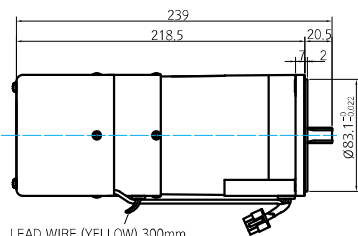
Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	5	7.5	10	15	20	25	30	40	50	60	80
9SBDG*~ 120F2WH	9WHD □ -030	1200	110	60	kgfcm N.m	28.5 2.80	41.3 4.05	53.1 5.21	74.8 7.33	94.5 9.26	108.2 10.61	126.0 12.34	154.8 15.17	173.5 17.00	163.3 16.00	132.7 13.00
			220	60	kgfcm N.m	27.8 2.73	40.3 3.95	51.8 5.08	73.0 7.15	92.2 9.03	105.6 10.35	122.9 12.04	151.0 14.80	173.5 17.00	163.3 16.00	132.7 13.00
			220/240	50	kgfcm N.m	27.8 2.73	40.3 3.95	51.8 5.08	73.0 7.15	92.2 9.03	105.6 10.35	122.9 12.04	151.0 14.80	173.5 17.00	163.3 16.00	132.7 13.00
		90	110	60	kgfcm N.m	12.5 1.23	18.1 1.78	23.3 2.29	32.8 3.22	41.5 4.06	47.5 4.66	55.3 5.42	68.0 6.66	77.8 7.62	86.4 8.47	101.4 9.93
			220	60	kgfcm N.m	11.5 1.13	16.6 1.63	21.4 2.10	30.1 2.95	38.0 3.73	43.6 4.27	50.7 4.97	62.3 6.11	71.3 6.99	79.2 7.76	92.9 9.11
			220/240	50	kgfcm N.m	13.2 1.30	19.2 1.88	24.6 2.41	34.7 3.40	43.8 4.29	50.2 4.92	58.4 5.72	71.7 7.03	82.1 8.04	91.2 8.94	107.0 10.49

- 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.

Dimensions

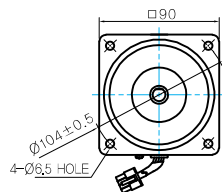
MOTOR ONLY

- MOTOR MODEL:
9SBD□□-120F2 (POWERFUL FAN)



LEAD WIRE (YELLOW) 300mm
UL STYLE NO.3398 AWG NO.22

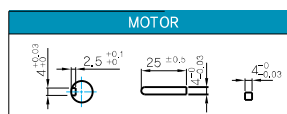
LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO.3271 AWG NO.20
T.G UL STYLE NO.1430 AWG NO.24



MOTOR OUTPUT SHAFT

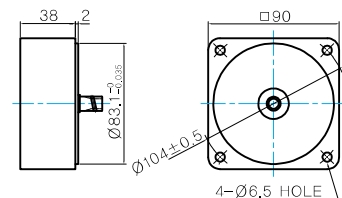
MODEL	SPEC
D-CUT TYPE	37 30 ^{+0.1} _{-0.1} 13 ^{+0.1} _{-0.1} Ø12 ^{+0.03} _{-0.03}
KEY TYPE	37 25 ^{+0.1} _{-0.1} Ø12 ^{+0.03} _{-0.03}
9SBD□□-120F2	

KEY SPEC



중간감속기

- MODEL: 9XD10□□



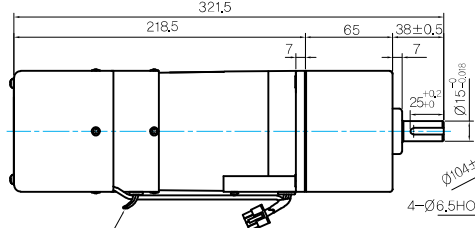
GEARED MOTOR

P TYPE GEARBOX

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

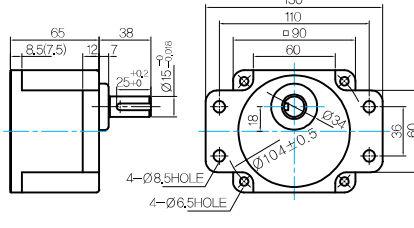
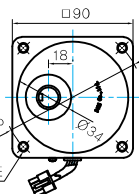
- GEARBOX MODEL:
9PBK□BH

- GEARBOX MODEL:
9PFK□BH



LEAD WIRE (Yellow) 300mm
UL STYLE NO.3398 AWG NO.20

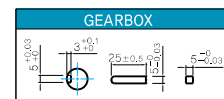
LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO.3271 AWG NO.20
T.G UL STYLE NO.1007 AWG NO.22



GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	35 25 ^{+0.1} _{-0.1} Ø15 ^{+0.03} _{-0.03}
9PBK□BH 9PFK□BH	

KEY SPEC

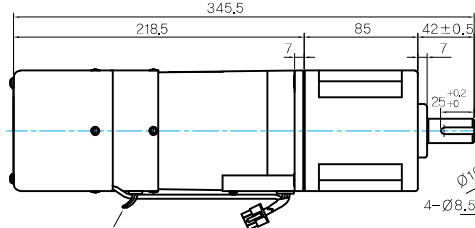


H TYPE GEARBOX

- MOTOR MODEL:
9SBDG□-120F2H (POWERFUL FAN)

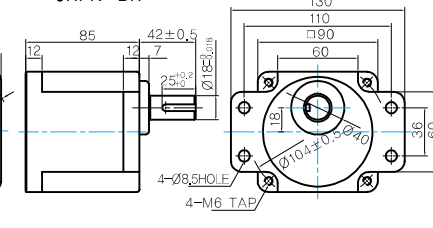
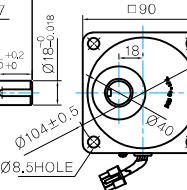
- GEARBOX MODEL:
9HBK□BH

- GEARBOX MODEL:
9HFK□BH



LEAD WIRE (Yellow) 300mm
UL STYLE NO.3398 AWG NO.20

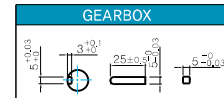
LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO.3271 AWG NO.20
T.G UL STYLE NO.1007 AWG NO.22



GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	42 25 ^{+0.1} _{-0.1} Ø18 ^{+0.03} _{-0.03}
9HBK□BH 9HFK□BH	

KEY SPEC

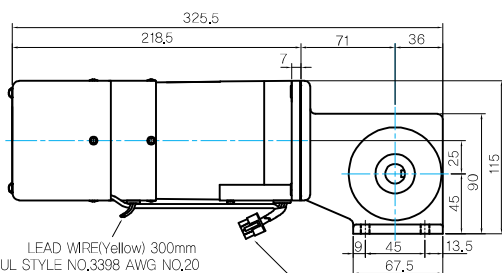
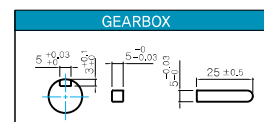


W TYPE GEARBOX

- MOTOR MODEL:
9SBDG□-120F2W (POWERFUL FAN)

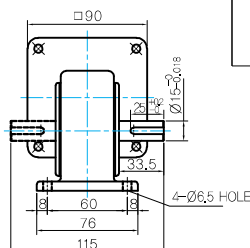
- GEARBOX MODEL:
9WD□BL/BR/BRL

KEY SPEC



LEAD WIRE (Yellow) 300mm
UL STYLE NO.3398 AWG NO.20

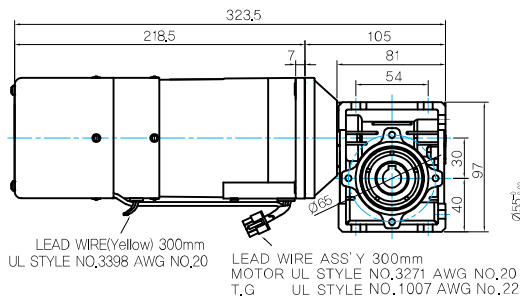
LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO.3271 AWG NO.20
T.G UL STYLE NO.1007 AWG NO.22



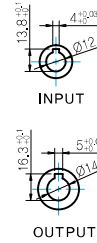
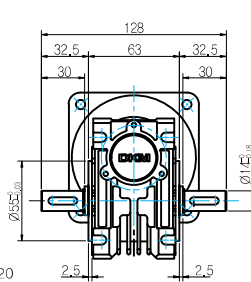
S.C. Brake Motor 120W (□ 90mm)

WH TYPE GEARBOX

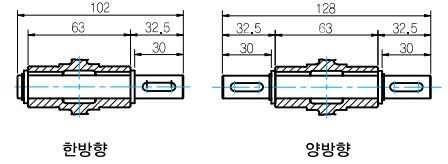
- MOTOR MODEL:
9SBDG□-120F2WH (POWERFUL FAN)



- GEARBOX MODEL:
9WHD□-030



- SHAFT

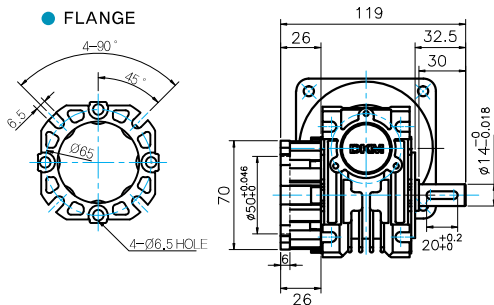


WEIGHT

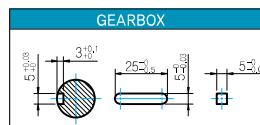
PART		WEIGHT(kg)
MOTOR		3.70
GEAR BOX	9PB(F)K2BH - 9PB(F)K10BH	1.28
	9PB(F)K12.5BH - 9PB(F)K20BH	1.30
	9PB(F)K25BH - 9PB(F)K60BH	1.45
	9PB(F)K75BH - 9PB(F)K200BH	1.47
	9HB(F)K3BH - 9HB(F)K10BH	1.62
	9HB(F)K12.5BH - 9HB(F)K20BH	1.68
	9HB(F)K25BH - 9HB(F)K60BH	1.73
	9HB(F)K75BH - 9HB(F)K200BH	1.78
	9WD□BL/BR/BRL	1.00
	9WHD□-030	1.20
	9XD10○○	0.60

*출력 FLANGE와 SHAFT는 별매입니다.

- FLANGE



- KEY SPEC



Motor Images

9SBD□-120F2	9SBDG□-120F2P+9PB□BH	9SBDG□-120F2P+9PF□BH	9SBDG□-120F2H+9HB□BH
9SBDG□-120F2H+9HFK□BH	9SBDG□-120F2W+9WD□BL	9SBDG□-120F2WH+9WHD□-030	