

60W

Speed Control
Brake Motor
60W(□ 90mm)

Motor 사양

Model		Output	Voltage	Frequency	Poles	Duty	Speed Range	Starting Torque		Permissible Torque				Capacitor
										1200r/min		90r/min		
Connector Type	Lead Wire Type	W	V	Hz			r/min	kgfcm	N.m	kgfcm	N.m	kgfcm	N.m	μF / VAC
9SBDG◊1(A)–60F2◻–C	9SBD◊1(A)–60F2◻–L	60	1 ϕ 110	60	4	30min.	90–1700	5,00	0,500	5,40	0,540	2,80	0,280	20.0 / 250
9SRD◊B–60F2◻–C	9SRD◊B–60F2◻–L	60	1 ϕ 100	50	4	30min.	90–1400	5,20	0,520	5,50	0,550	2,80	0,280	25.0 / 250
				60			90–1700	5,00	0,500	5,40	0,540	2,80	0,280	
9SRD◊C–60F2◻–C	9SRD◊C–60F2◻–L	60	1 ϕ 200	50	4	30min.	90–1400	5,00	0,500	5,20	0,520	2,70	0,270	6.0 / 450
				60			90–1700	4,90	0,490	5,20	0,520	2,70	0,270	
9SBD◊2(D)–60F2◻–C	9SBD◊2(D)–60F2◻–L	60	1 ϕ 220	60	4	30min.	90–1700	5,00	0,500	5,30	0,530	2,70	0,270	6.0 / 450
			1 ϕ 220											
9SBD◊E–60F2◻–C	9SBD◊E–60F2◻–L	60	1 ϕ 240	50	4	30min.	90–1400	5,00	0,500	5,20	0,520	2,70	0,270	6.0 / 450
			1 ϕ 240											

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, B, C, 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	25
9SBDG*~60F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm	8.7	13.1	15.7	21.9	26.2	32.8	39.4	43.7	49.3	59.1	71.0	78.8	89.1
					N.m	0.86	1.29	1.54	2.14	2.57	3.21	3.86	4.29	4.83	5.79	6.95	7.73	8.73
			220	60	kgfcm	8.6	12.9	15.5	21.5	25.8	32.2	38.6	42.9	48.4	58.0	69.6	77.4	87.5
					N.m	0.84	1.26	1.51	2.10	2.52	3.16	3.79	4.21	4.74	5.69	6.82	7.58	8.57
		90	220/240	50	kgfcm	8.4	12.6	15.2	21.1	25.3	31.6	37.9	42.1	47.5	56.9	68.3	75.9	85.8
					N.m	0.83	1.24	1.49	2.06	2.48	3.10	3.71	4.13	4.65	5.58	6.70	7.44	8.41
			110	60	kgfcm	4.5	6.8	8.2	11.3	13.6	17.0	20.4	22.7	25.6	30.7	36.8	40.9	46.2
					N.m	0.44	0.67	0.80	1.11	1.33	1.67	2.00	2.22	2.50	3.00	3.61	4.01	4.53
			220	60	kgfcm	4.4	6.6	7.9	10.9	13.1	16.4	19.7	21.9	24.6	29.6	35.5	39.4	44.6
					N.m	0.43	0.64	0.77	1.07	1.29	1.61	1.93	2.14	2.41	2.90	3.48	3.86	4.37
			220/240	50	kgfcm	4.4	6.6	7.9	10.9	13.1	16.4	19.7	21.9	24.6	29.6	35.5	39.4	44.6
					N.m	0.43	0.64	0.77	1.07	1.29	1.61	1.93	2.14	2.41	2.90	3.48	3.86	4.37

Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	30	36	40	50	60	75	90	100	120	150	180	200
9SBDG*~60F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm	106.9	128.3	142.6	178.2	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
					N.m	10.48	12.57	13.97	17.46	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
			220	60	kgfcm	104.9	125.9	139.9	174.9	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
					N.m	10.28	12.34	13.71	17.14	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
		90	220/240	50	kgfcm	103.0	123.6	137.3	171.6	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
					N.m	10.09	12.11	13.45	16.82	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
			110	60	kgfcm	55.4	66.5	73.9	92.4	110.9	123.9	148.7	165.2	198.2	200.0	200.0	200.0
					N.m	5.43	6.52	7.24	9.06	10.87	12.14	14.57	16.19	19.43	19.60	19.60	19.60
			220	60	kgfcm	53.5	64.2	71.3	89.1	106.9	119.5	143.4	159.3	191.2	200.0	200.0	200.0
					N.m	5.24	6.29	6.99	8.73	10.48	11.71	14.05	15.61	18.73	19.60	19.60	19.60
			220/240	50	kgfcm	53.5	64.2	71.3	89.1	106.9	119.5	143.4	159.3	191.2	200.0	200.0	200.0
					N.m	5.24	6.29	6.99	8.73	10.48	11.71	14.05	15.61	18.73	19.60	19.60	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*~60F2H	9HBK□BH 9HFK□BH	1200	110	60	kgfcm	13.1	15.7	21.9	26.2	32.8	39.4	43.7	49.3	59.1	71.0	78.8	89.1	106.9
					N.m	1.29	1.54	2.14	2.57	3.21	3.86	4.29	4.83	5.79	6.95	7.73	8.73	10.48
			220	60	kgfcm	12.9	15.5	21.5	25.8	32.2	38.6	42.9	48.4	58.0	69.6	77.4	87.5	104.9
					N.m	1.26	1.51	2.10	2.52	3.16	3.79	4.21	4.74	5.69	6.82	7.58	8.57	10.28
		90	220/240	50	kgfcm	12.6	15.2	21.1	25.3	31.6	37.9	42.1	47.5	56.9	68.3	75.9	85.8	103.0
					N.m	1.24	1.49	2.06	2.48	3.10	3.71	4.13	4.65	5.58	6.70	7.44	8.41	10.09
			110	60	kgfcm	6.8	8.2	11.3	13.6	17.0	20.4	22.7	25.6	30.7	36.8	40.9	46.2	55.4
					N.m	0.67	0.80	1.11	1.33	1.67	2.00	2.22	2.50	3.00	3.61	4.01	4.53	5.43
			220	60	kgfcm	6.6	7.9	10.9	13.1	16.4	19.7	21.9	24.6	29.6	35.5	39.4	44.6	53.5
					N.m	0.64	0.77	1.07	1.29	1.61	1.93	2.14	2.41	2.90	3.48	3.86	4.37	5.24
			220/240	50	kgfcm	6.6	7.9	10.9	13.1	16.4	19.7	21.9	24.6	29.6	35.5	39.4	44.6	53.5
					N.m	0.64	0.77	1.07	1.29	1.61	1.93	2.14	2.41	2.90	3.48	3.86	4.37	5.24

S.C. Brake Motor 60W (□ 90mm)

감속기 부착 시 최대허용토크

Motor Model	Gear box Model	회전 속도 r/min	전압 V	주파수 Hz	감속비	36	40	50	60	75	90	100	120	150	180	200
9SBDG*~ 60F2H	9HBK □ BH 9HFK □ BH	1200	110	60	kgfcm N.m	128.3 12.57	142.6 13.97	178.2 17.46	213.8 20.96	239.0 23.42	286.7 28.10	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	125.9 12.34	139.9 13.71	174.9 17.14	209.9 20.57	234.5 22.98	281.4 27.58	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	123.6 12.11	137.3 13.45	171.6 16.82	205.9 20.18	230.1 22.55	276.1 27.06	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	66.5 6.52	73.9 7.24	92.4 9.06	110.9 10.87	123.9 12.14	148.7 14.57	165.2 16.19	198.2 19.43	247.8 24.28	297.4 29.14	300.0 29.40
			220	60	kgfcm N.m	64.2 6.29	71.3 6.99	89.1 8.73	106.9 10.48	119.5 11.71	143.4 14.05	159.3 15.61	191.2 18.73	239.0 23.42	286.7 28.10	300.0 29.40
			220/ 240	50	kgfcm N.m	64.2 6.29	71.3 6.99	89.1 8.73	106.9 10.48	119.5 11.71	143.4 14.05	159.3 15.61	191.2 18.73	239.0 23.42	286.7 28.10	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*~ 60F2W	9WD □ BL / □ BR / □ BRL	1200	110	60	kgfcm N.m	44.3 4.34	51.8 5.08	62.4 6.11	71.9 7.05	94.5 9.26	106.9 10.48	124.4 12.19	142.9 14.00	122.4 12.00
			220	60	kgfcm N.m	43.5 4.26	50.9 4.99	61.2 6.00	70.6 6.92	92.8 9.09	104.9 10.28	122.1 11.97	142.9 14.00	122.4 12.00
			220/240	50	kgfcm N.m	47.6 4.66	55.7 5.46	67.0 6.57	77.3 7.57	101.5 9.95	114.8 11.25	133.6 13.10	142.9 14.00	122.4 12.00
		90	110	60	kgfcm N.m	23.0 2.25	26.9 2.63	32.3 3.17	37.3 3.66	49.0 4.80	55.4 5.43	64.5 6.32	84.0 8.23	92.4 9.06
			220	60	kgfcm N.m	22.1 2.17	25.9 2.54	31.2 3.06	36.0 3.52	47.3 4.63	53.5 5.24	62.2 6.10	81.0 7.94	89.1 8.73
			220/240	50	kgfcm N.m	23.8 2.33	27.8 2.73	33.5 3.28	38.6 3.79	50.8 4.97	57.4 5.63	66.8 6.55	87.0 8.53	95.7 9.38

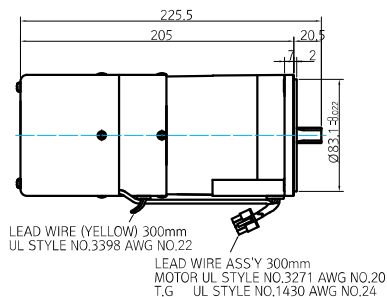
Motor Model	Gearbox Model	회전 속도 r/min	전압 V	주파수 Hz	감속비	5	7.5	10	15	20	25	30	40	50	60	80
9SBDG*~ 60F2WH	9WHD □ -030	1200	110	60	kgfcm N.m	18.8 1.84	27.2 2.67	35.0 3.43	49.2 4.83	62.2 6.10	71.3 6.99	82.9 8.13	102.0 9.99	116.6 11.43	129.6 12.70	132.7 13.00
			220	60	kgfcm N.m	18.4 1.81	26.7 2.62	34.3 3.37	48.3 4.74	61.1 5.98	70.0 6.86	81.4 7.98	100.1 9.81	114.5 11.22	127.2 12.47	132.7 13.00
			220/240	50	kgfcm N.m	20.2 1.98	29.2 2.86	37.6 3.68	52.9 5.18	66.8 6.55	76.6 7.50	89.1 8.73	109.5 10.73	125.3 12.28	139.2 13.64	132.7 13.00
		90	110	60	kgfcm N.m	12.2 1.19	17.6 1.73	22.7 2.22	31.9 3.13	40.3 3.95	46.2 4.53	53.8 5.27	66.1 6.48	75.6 7.41	84.0 8.23	98.6 9.66
			220	60	kgfcm N.m	11.7 1.15	17.0 1.67	21.9 2.14	30.8 3.02	38.9 3.81	44.6 4.37	51.8 5.08	63.7 6.24	72.9 7.14	81.0 7.94	95.0 9.31
			220/240	50	kgfcm N.m	12.6 1.24	18.3 1.79	23.5 2.30	33.1 3.24	41.8 4.09	47.9 4.69	55.7 5.46	68.4 6.71	78.3 7.67	87.0 8.53	102.1 10.00

- 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.

Dimensions

MOTOR ONLY

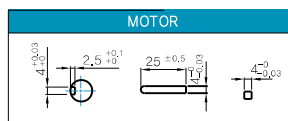
- MOTOR MODEL:
9SBD□□-60F2 (POWERFUL FAN)



MOTOR OUTPUT SHAFT

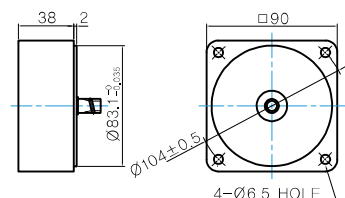
MODEL	SPEC
D-CUT TYPE	37 30 ^{+0.1} _{-0.1} Ø12 ^{+0.03} _{-0.03}
9SBD□□-60F2	
KEY TYPE	37 25 ^{+0.1} _{-0.1} Ø12 ^{+0.03} _{-0.03}
9SBDK□□-60F2	

KEY SPEC



중간감속기

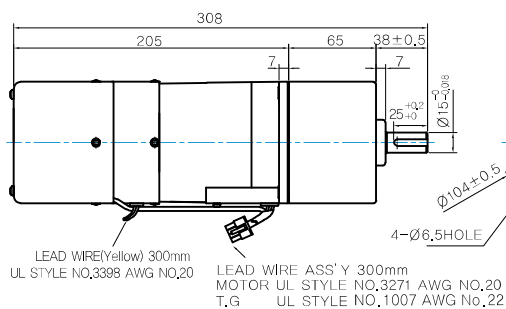
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GEARED MOTOR

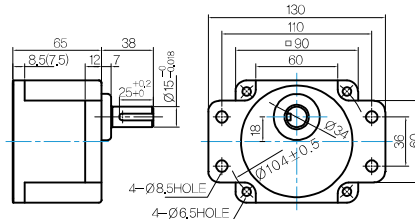
P TYPE GEARBOX

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



- GEARBOX MODEL:
9PBK□BH

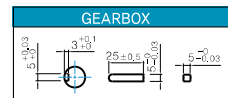
- GEARBOX MODEL:
9PFK□BH



GEARBOX OUTPUT SHAFT

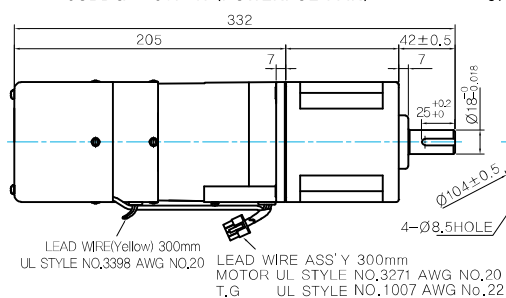
MODEL	SPEC
KEY TYPE	38 25 ^{+0.2} _{-0.2} Ø15 ^{+0.08} _{-0.08}
9PBK□BH 9PFK□BH	

KEY SPEC



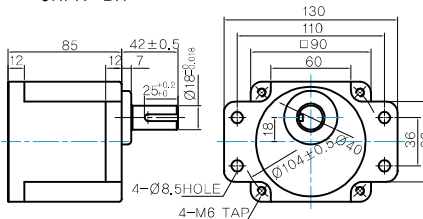
H TYPE GEARBOX

- MOTOR MODEL:
9SBDG□□-60F2H (POWERFUL FAN)



- GEARBOX MODEL:
9HBK□BH

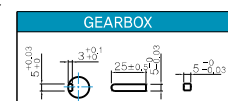
- GEARBOX MODEL:
9HFK□BH



GEARBOX OUTPUT SHAFT

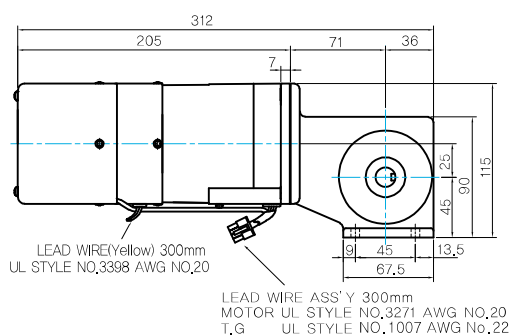
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KEY TYPE	42 25 ^{+0.2} _{-0.2} Ø18 ^{+0.08} _{-0.08}
9HBK□BH 9HFK□BH	

KEY SPEC



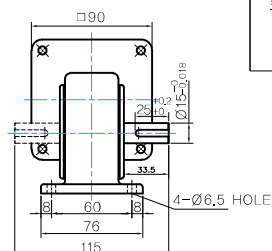
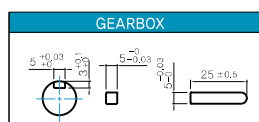
W TYPE GEARBOX

- MOTOR MODEL:
9SBDG□□-60F2W (POWERFUL FAN)



- GEARBOX MODEL:
9WD□BL/BR/BRL

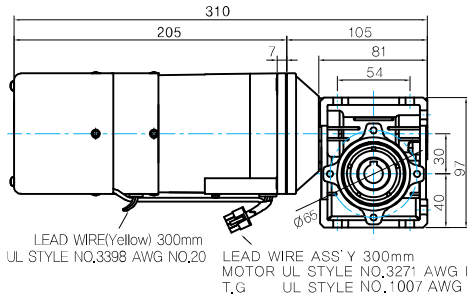
KEY SPEC



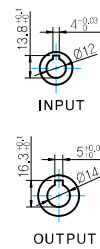
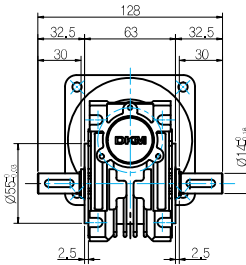
S.C. Brake Motor 60W (□ 90mm)

WH TYPE GEARBOX

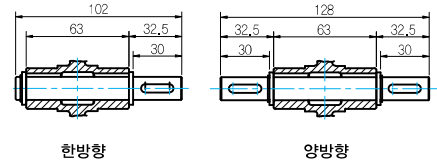
- MOTOR MODEL:
9SBDG□-60F2WH (POWERFUL FAN)



- GEARBOX MODEL:
9WHD□-030



- SHAFT

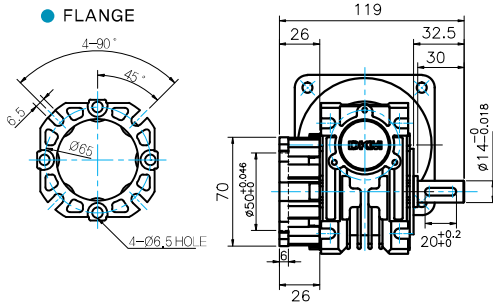


WEIGHT

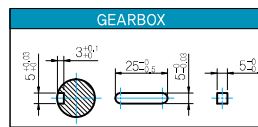
PART	WEIGHT(kg)
MOTOR	3.40
GEAR BOX	
9PB(F)K2BH - 9PB(F)K10BH	1.28
9PB(F)K12.5BH - 9PB(F)K20BH	1.30
9PB(F)K25BH - 9PB(F)K60BH	1.45
9PB(F)K75BH - 9PB(F)K200BH	1.47
9HB(F)K3BH - 9HB(F)K10BH	1.62
9HB(F)K12.5BH - 9HB(F)K20BH	1.68
9HB(F)K25BH - 9HB(F)K60BH	1.73
9HB(F)K75BH - 9HB(F)K200BH	1.78
9WD□BL/BR/BRL	1.00
9WHD□-030	1.20
9XD10□□	0.60

*출력 FLANGE와 SHAFT는 별매입니다.

- FLANGE



- KEY SPEC



Motor Images

