

90W

Speed Control
Brake Motor
90W(□ 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									kgfcm	N.m	kgfcm	N.m	
9SBDG*~90F2□~C(L): Gear Type Shaft	9SBD□1(A)~90F2□~L	90	1 ø 110	60	4	30min.	90~1700	6.00	0.600	7.30	0.730	3.00	0.300	25.0 / 250
9SBD□~90F2□~C(L): D-Cut Type Shaft	9SBD□~90F2□~L	90	1 ø 100	50	4	30min.	90~1400	6.30	0.630	7.60	0.760	3.30	0.330	30.0 / 250
9SBDK*~60F2~C(L): Key Type Shaft	9SBD□~60F2~L	90	1 ø 100	60			90~1700	6.20	0.620	7.40	0.740	3.30	0.330	
		90	1 ø 200	50	4	30min.	90~1400	6.00	0.600	7.50	0.750	3.00	0.300	7.0 / 450
		90	1 ø 200	60			90~1700	6.00	0.600	7.30	0.730	3.00	0.300	
		90	1 ø 220	60	4	30min.	90~1700	6.00	0.600	7.30	0.730	3.00	0.300	6.5 / 450
		90	1 ø 220	50	4	30min.	90~1400	5.50	0.550	7.00	0.700	2.80	0.280	6.5 / 450
		90	1 ø 240	60			90~1700	6.00	0.600	7.50	0.750	3.30	0.330	

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
9SBDG*~90F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm N.m	11.8 1.16	17.7 1.74	21.3 2.09	29.6 2.90	35.5 3.48	44.3 4.35	53.2 5.22	59.1 5.79	66.6 6.53	79.9 7.83	95.9 9.40	106.6 10.44
			220	60	kgfcm N.m	11.8 1.16	17.7 1.74	21.3 2.09	29.6 2.90	35.5 3.48	44.3 4.35	53.2 5.22	59.1 5.79	66.6 6.53	79.9 7.83	95.9 9.40	106.6 10.44
			220/240	50	kgfcm N.m	11.3 1.11	17.0 1.67	20.4 2.00	28.4 2.78	34.0 3.33	42.5 4.17	51.0 5.00	56.7 5.56	63.9 6.26	76.7 7.51	92.0 9.01	102.2 10.02
		90	110	60	kgfcm N.m	4.9 0.48	7.3 0.71	8.7 0.86	12.2 1.19	14.6 1.43	18.2 1.79	21.9 2.14	24.3 2.38	27.4 2.68	32.9 3.22	39.4 3.86	43.8 4.29
			220	60	kgfcm N.m	4.9 0.48	7.3 0.71	8.7 0.86	12.2 1.19	14.6 1.43	18.2 1.79	21.9 2.14	24.3 2.38	27.4 2.68	32.9 3.22	39.4 3.86	43.8 4.29
			220/240	50	kgfcm N.m	4.5 0.44	6.8 0.67	8.2 0.80	11.3 1.11	13.6 1.33	17.0 1.67	20.4 2.00	22.7 2.22	25.6 2.50	30.7 3.00	36.8 3.61	40.9 4.01

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*~90F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm N.m	120.5 11.80	144.5 14.16	173.4 17.00	192.7 18.89	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
			220	60	kgfcm N.m	120.5 11.80	144.5 14.16	173.4 17.00	192.7 18.89	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
			220/240	50	kgfcm N.m	115.5 11.32	138.6 13.58	166.3 16.30	184.8 18.11	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
		90	110	60	kgfcm N.m	49.5 4.85	59.4 5.82	71.3 6.99	79.2 7.76	99.0 9.70	118.8 11.64	132.8 13.01	159.3 15.61	177.0 17.35	200.0 19.60	200.0 19.60	200.0 19.60	200.0
			220	60	kgfcm N.m	49.5 4.85	59.4 5.82	71.3 6.99	79.2 7.76	99.0 9.70	118.8 11.64	132.8 13.01	159.3 15.61	177.0 17.35	200.0 19.60	200.0 19.60	200.0 19.60	200.0
			220/240	50	kgfcm N.m	46.2 4.53	55.4 5.43	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	200.0 19.60	200.0 19.60	200.0

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*~90F2H	9HBK□BH 9HFK□BH	1200	110	60	kgfcm N.m	17.7 1.74	21.3 2.09	29.6 2.90	35.5 3.48	44.3 4.35	53.2 5.22	59.1 5.79	66.6 6.53	79.9 7.83	95.9 9.40	106.6 10.44	120.5 11.80	144.5 14.16
			220	60	kgfcm N.m	17.7 1.74	21.3 2.09	29.6 2.90	35.5 3.48	44.3 4.35	53.2 5.22	59.1 5.79	66.6 6.53	79.9 7.83	95.9 9.40	106.6 10.44	120.5 11.80	144.5 14.16
			220/240	50	kgfcm N.m	17.0 1.67	20.4 2.00	28.4 2.78	34.0 3.33	42.5 4.17	51.0 5.00	56.7 5.56	63.9 6.26	76.7 7.51	92.0 9.01	102.2 10.02	115.5 11.32	138.6 13.58
		90	110	60	kgfcm N.m	7.3 0.71	8.7 0.86	12.2 1.19	14.6 1.43	18.2 1.79	21.9 2.14	24.3 2.38	27.4 2.68	32.9 3.22	39.4 3.86	43.8 4.29	49.5 4.85	59.4 5.82
			220	60	kgfcm N.m	7.3 0.71	8.7 0.86	12.2 1.19	14.6 1.43	18.2 1.79	21.9 2.14	24.3 2.38	27.4 2.68	32.9 3.22	39.4 3.86	43.8 4.29	49.5 4.85	59.4 5.82
			220/240	50	kgfcm N.m	6.8 0.67	8.2 0.80	11.3 1.11	13.6 1.33	17.0 1.67	20.4 2.00	22.7 2.22	25.6 2.50	30.7 3.00	36.8 3.61	40.9 4.01	46.2 4.53	55.4 5.43

S.C. Brake Motor 90W (□ 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*~ 90F2H	9HBK □ BH 9HFK □ BH	1200	110	60	kgfcm N.m	173.4 17.00	192.7 18.89	240.9 23.61	289.1 28.33	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	173.4 17.00	192.7 18.89	240.9 23.61	289.1 28.33	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	166.3 16.30	184.8 18.11	231.0 22.64	277.2 27.17	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	71.3 6.99	79.2 7.76	99.0 9.70	118.8 11.64	132.8 13.01	159.3 15.61	177.0 17.35	212.4 20.82	265.5 26.02	300.0 29.40	300.0 29.40
			220	60	kgfcm N.m	71.3 6.99	79.2 7.76	99.0 9.70	118.8 11.64	132.8 13.01	159.3 15.61	177.0 17.35	212.4 20.82	265.5 26.02	300.0 29.40	300.0 29.40
			220/ 240	50	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

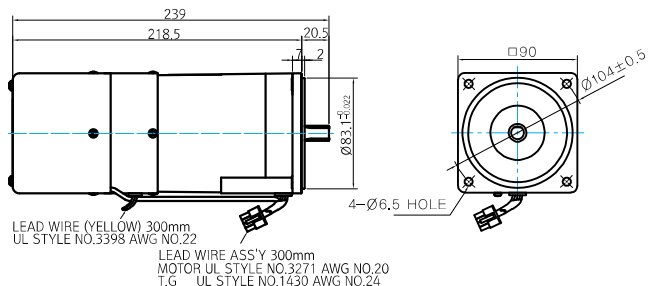
Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	10	12	15	18	25	30	36	50	60
9SBDG*~ 90F2W	9WD □ BL/ □ BR/ □ BRL	1200	110	60	kgfcm N.m	59.9 5.87	70.1 6.87	84.3 8.26	97.2 9.53	127.8 12.52	144.5 14.16	153.1 15.00	142.9 14.00	122.4 12.00
			220	60	kgfcm N.m	59.9 5.87	70.1 6.87	84.3 8.26	97.2 9.53	127.8 12.52	144.5 14.16	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	24.6 2.41	28.8 2.82	34.7 3.40	40.0 3.92	52.5 5.15	59.4 5.82	69.1 6.77	90.0 8.82	99.0 9.70
			220	60	kgfcm N.m	24.6 2.41	28.8 2.82	34.7 3.40	40.0 3.92	52.5 5.15	59.4 5.82	69.1 6.77	90.0 8.82	99.0 9.70
			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	108.9 10.67

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
9SBG*~ 90F2WH	9WHD □ -030	1200	110	60	kgfcm N.m	25.4 2.49	36.8 3.61	47.3 4.64	66.6 6.52	84.1 8.24	96.4 9.44	112.1 10.99	137.8 13.51	157.7 15.45	163.3 16.00	132.7 13.00
			220	60	kgfcm N.m	25.4 2.49	36.8 3.61	47.3 4.64	66.6 6.52	84.1 8.24	96.4 9.44	112.1 10.99	137.8 13.51	157.7 15.45	163.3 16.00	132.7 13.00
			220/240	50	kgfcm N.m	26.1 2.56	37.8 3.70	48.6 4.76	68.4 6.70	86.4 8.47	99.0 9.70	115.2 11.29	141.6 13.88	162.0 15.88	163.3 16.00	132.7 13.00
		90	110	60	kgfcm N.m	10.4 1.02	15.1 1.48	19.4 1.91	27.4 2.68	34.6 3.39	39.6 3.88	46.1 4.52	56.6 5.55	64.8 6.35	72.0 7.06	84.5 8.28
			220	60	kgfcm N.m	10.4 1.02	15.1 1.48	19.4 1.91	27.4 2.68	34.6 3.39	39.6 3.88	46.1 4.52	56.6 5.55	64.8 6.35	72.0 7.06	84.5 8.28
			220/240	50	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

- 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**

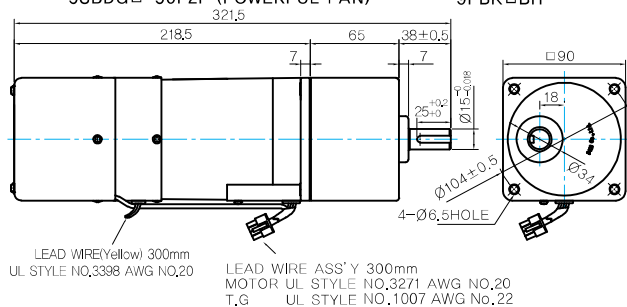
- MOTOR MODEL:
9SBD□□-90F2 (POWERFUL FAN)



GEARED MOTOR

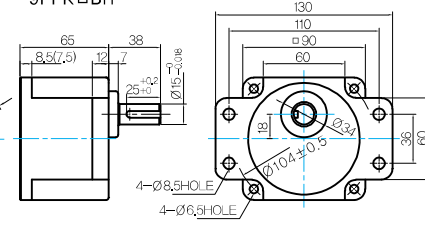
P TYPE GEARBOX

- MOTOR MODEL:
9SBDG□-90F2P (POWERFUL FAN)



- GEARBOX MODEL:
9PBK□BH

- GEARBOX MODEL:
9PFK□BH



- GEARBOX OUTPUT SHAFT

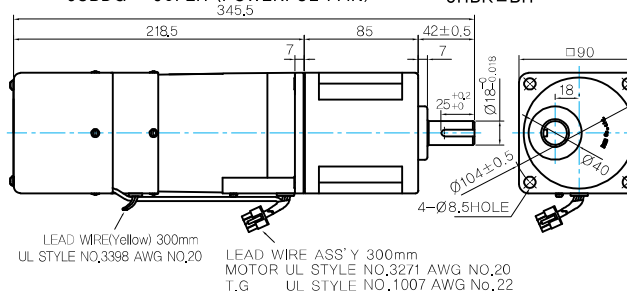
MODEL	SPEC
KEY TYPE	
9PBK□BH 9PFK□BH	

- KEY SPEC

GEARBOX

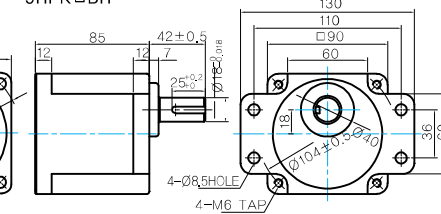
 H TYPE GEARBOX

- MOTOR MODEL:
9SBDG□-90F2H (POWERFUL FAN)



- GEARBOX MODEL:
9HBK□BH

- GEARBOX MODEL:
9HFK0BH



- GEARBOX OUTPUT SHAFT

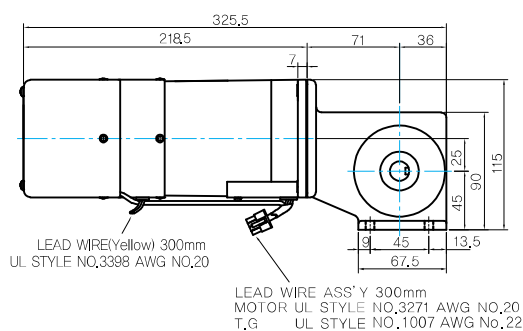
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KEY TYPE	
9HBK□BH	
9HFK□BH	

- KEY SPEC

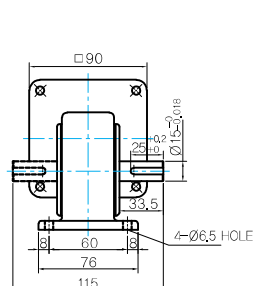
GEARBOX

W TYPE GEARBOX

- MOTOR MODEL:
9SBDG□-90F2W (POWERFUL FAN)



- GEARBOX MODEL:
9WD□BL/BR/BRL

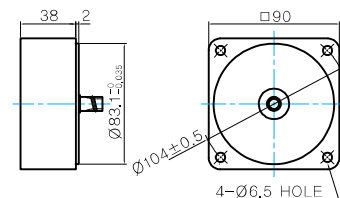


- KEY SPEC

GEARBOX

 중간감속기

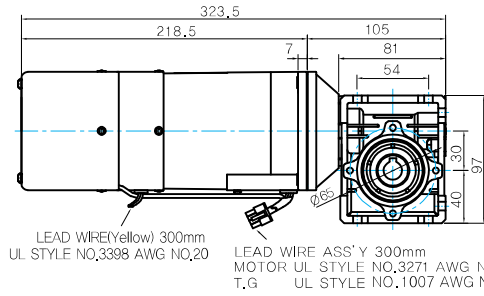
- MODEL: 9XD10□□



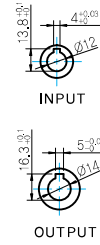
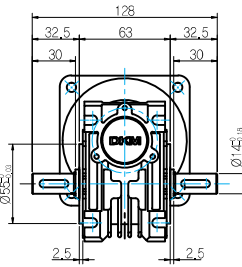
S.C. Brake Motor 90W (□ 90mm)

WH TYPE GEARBOX

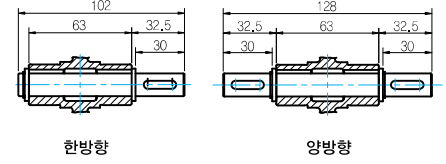
● MOTOR MODEL:
9SBDG□-90F2WH (POWERFUL FAN)



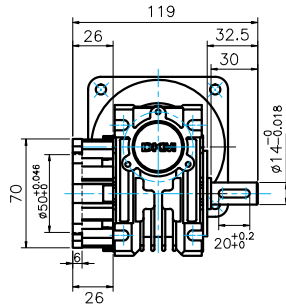
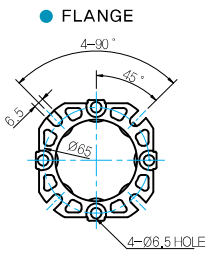
● GEARBOX MODEL:
9WHD□-030



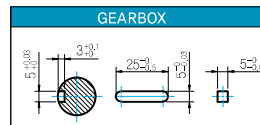
● SHAFT



● FLANGE



● KEY SPEC



WEIGHT

PART	WEIGHT(kg)
MOTOR	3.70
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.

Motor Images

