

S.C. Reversible Motor 120W (□ 90mm)

120W

Speed Control
Reversible Motor
120W(□ 90mm)

Motor 사양

Model		Output	Voltage	Frequency	Poles	Duty	Speed Range	Starting Torque		Permissible Torque				Capacitor
										1200r/min		90r/min		
										kgfcm	N.m	kgfcm	N.m	
Connector Type	Lead Wire Type	W	V	Hz			r/min	kgfcm	N.m	kgfcm	N.m	kgfcm	N.m	μF / VAC
9SRD□1(A)→120F2□→C	9SRD□1(A)→120F2□→L	120	1 ∅110	60	4	30min.	90→1700	7.80	0.780	8.20	0.820	3.60	0.360	30.0 / 250
9SRD□2(D)→120F2□→C	9SRD□2(D)→120F2□→L	120	1 ∅220	60	4	30min.	90→1700	7.60	0.760	8.00	0.800	3.30	0.330	7.0 / 450
9SRD□E→120F2□→C	9SRD□E→120F2□→L	120	1 ∅220	50	4	30min.	90→1400	6.00	0.600	7.50	0.750	3.30	0.330	7.0 / 450
			1 ∅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	회전 속도 r/min	전압 V	주파수 Hz	감속비	2	3	3.6	5	6	7.5	9	10	12.5	15	18	20
9SRDG*-120F2P	9PBK□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
	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	회전 속도 r/min	전압 V	주파수 Hz	감속비	25	30	36	40	50	60	75	90	100	120	150	180	200
9SRDG*-120F2P	9PBK□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
			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
			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
		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
			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
			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
	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
			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
			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
		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
			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
			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

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.

S.C. Reversible Motor 120W (□ 90mm)

감속기 부착 시 최대허용토크

Motor Model	Gear box Model	회전 속도 r/min	전압 V	주파수 Hz	감속비	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25
9SRDG*~ 120F2H	9HBK □ BH	1200	110	60	kgfcm	19.9	23.9	33.2	39.9	49.8	59.8	66.4	74.8	89.8	107.7	119.7	135.3
					N.m	1.95	2.34	3.25	3.91	4.88	5.86	6.51	7.33	8.80	10.56	11.73	13.26
					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
	9HFK □ BH	1200	220/240	50	kgfcm	18.2	21.9	30.4	36.5	45.6	54.7	60.8	68.4	82.1	98.6	109.5	123.8
					N.m	1.79	2.14	2.98	3.57	4.47	5.36	5.95	6.71	8.05	9.66	10.73	12.13
					kgfcm N.m	18.2 0.86	21.9 1.03	30.4 1.43	36.5 1.71	45.6 2.14	54.7 2.57	60.8 2.86	68.4 3.22	82.1 3.86	98.6 4.64	109.5 5.15	123.8 5.82
	9HFK □ BH	90	110	60	kgfcm	8.7	10.5	14.6	17.5	21.9	26.2	29.2	32.9	39.4	47.3	52.6	59.4
					N.m	0.86	1.03	1.43	1.71	2.14	2.57	2.86	3.22	3.86	4.64	5.15	5.82
					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
	9HFK □ BH	90	220/240	50	kgfcm	8.0	9.6	13.4	16.0	20.0	24.1	26.7	30.1	36.1	43.4	48.2	54.5
					N.m	0.79	0.94	1.31	1.57	1.96	2.36	2.62	2.95	3.54	4.25	4.72	5.34

Motor Model	Gear box Model	회전 속도 r/min	전압 V	주파수 Hz	감속비	30	36	40	50	60	75	90	100	120	150	180	200
9SRDG*~ 120F2H	9HBK □ BH	1200	110	60	kgfcm	162.4	194.8	216.5	270.6	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
					N.m	15.91	19.09	21.22	26.52	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
					kgfcm N.m	158.4 15.52	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
	9HFK □ BH	1200	220/240	50	kgfcm	148.5	178.2	198.0	247.5	297.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
					N.m	14.55	17.46	19.40	24.26	29.11	29.40	29.40	29.40	29.40	29.40	29.40	29.40
					kgfcm N.m	148.5 14.55	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
	9HFK □ BH	90	110	60	kgfcm	71.3	85.5	95.0	118.8	142.6	159.3	191.2	212.4	254.9	300.0	300.0	300.0
					N.m	6.99	8.38	9.31	11.64	13.97	15.61	18.73	20.82	24.98	29.40	29.40	29.40
					kgfcm N.m	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	233.6 22.90	292.1 28.62	300.0 29.40	300.0 29.40
	9HFK □ BH	90	220/240	50	kgfcm	65.3	78.4	87.1	108.9	130.7	146.0	175.2	194.7	233.6	292.1	300.0	300.0
					N.m	6.40	7.68	8.54	10.67	12.81	14.31	17.17	19.08	22.90	28.62	29.40	29.40

Motor Model	Gearbox Model	회전속도 r/min	전압 V	주파수 Hz	감속비	10	12	15	18	25	30	36	50	60
9SRDG*~ 120F2W	9WD □ BL/ □ BR/ □ BRL	1200	110	60	kgfcm	67.2	78.7	94.7	109.2	143.5	162.4	153.1	142.9	122.4
					N.m	6.59	7.71	9.28	10.70	14.06	15.91	15.00	14.00	12.00
					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
		1200	220/240	50	kgfcm	61.5	72.0	86.6	99.9	131.3	148.5	153.1	142.9	122.4
					N.m	6.03	7.06	8.49	9.79	12.86	14.55	15.00	14.00	12.00
					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	29.5	34.6	41.6	48.0	63.0	71.3	82.9	108.0	122.4
					N.m	2.89	3.39	4.07	4.70	6.17	6.99	8.13	10.58	12.00
					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
		90	220/240	50	kgfcm	27.1	31.7	38.1	44.0	57.8	65.3	76.0	99.0	122.4
					N.m	2.65	3.10	3.74	4.31	5.66	6.40	7.45	9.70	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
9SRDG*~ 120F2WH	9WHD □ -030	1200	110	60	kgfcm	28.5	41.3	53.1	74.8	94.5	108.2	126.0	154.8	173.5	163.3	132.7
					N.m	2.80	4.05	5.21	7.33	9.26	10.61	12.34	15.17	17.00	16.00	13.00
					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
		1200	220/240	50	kgfcm	27.8	40.3	51.8	73.0	92.2	105.6	122.9	151.0	173.5	163.3	132.7
					N.m	2.73	3.95	5.08	7.15	9.03	10.35	12.04	14.80	17.00	16.00	13.00
					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	12.5	18.1	23.3	32.8	41.5	47.5	55.3	68.0	77.8	86.4	101.4
					N.m	1.23	1.78	2.29	3.22	4.06	4.66	5.42	6.66	7.62	8.47	9.93
					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
		90	220/240	50	kgfcm	13.2	19.2	24.6	34.7	43.8	50.2	58.4	71.7	82.1	91.2	107.0
					N.m	1.30	1.88	2.41	3.40	4.29	4.92	5.72	7.03	8.04	8.94	10.49

S.C. Reversible Motor 120W (□ 90mm)

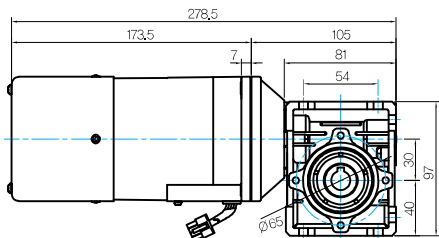
Dimensions

WH TYPE GEARBOX

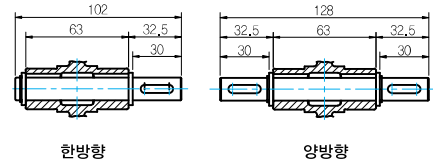
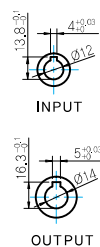
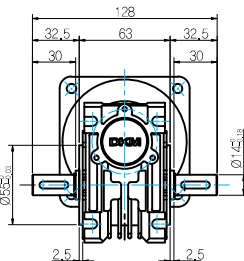
● MOTOR MODEL:
9SRDG□-120F2WH (POWERFUL FAN)

● GEARBOX MODEL:
9WHD□-030

● SHAFT



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



한방향

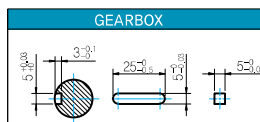
양방향

WEIGHT

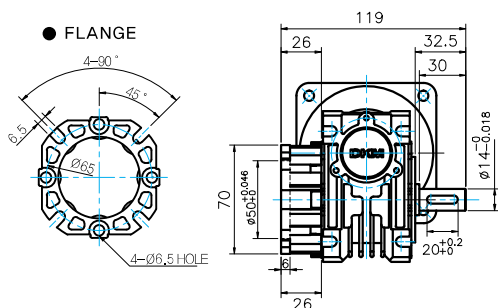
PART	WEIGHT(kg)
MOTOR	3.50
9PB(F)K2BH - 9PB(F)K10BH	1.28
9PB(F)K12.5BH - 9PB(F)K20BH	1.30
9PB(F)K25BH - 9PB(F)K60BH	1.45
9PB(F)K75BH - 9PB(F)K200BH	1.47
9HB(F)K3BH - 9HB(F)K10BH	1.62
9HB(F)K12.5BH - 9HB(F)K20BH	1.68
9HB(F)K25BH - 9HB(F)K60BH	1.73
9HB(F)K75BH - 9HB(F)K200BH	1.78
9WD□BL/BR/BRL	1.00
9WHD□-030	1.20
9XD10□□	0.60

GEAR BOX

KEY SPEC



FLANGE



*출력 FLANGE와 SHAFT는 별매입니다.

Motor Images

9SRDD□-120F2	9SRDG□-120F2P+9PBK□BH	9SRDG□-120F2P+9PFK□BH	9SRDG□-120F2H+9HBK□BH
9SRDG□-120F2H+9HFK□BH	9SRDG□-120F2W+9WD□BL	9SRDG□-120F2WH+9WHD□-030	