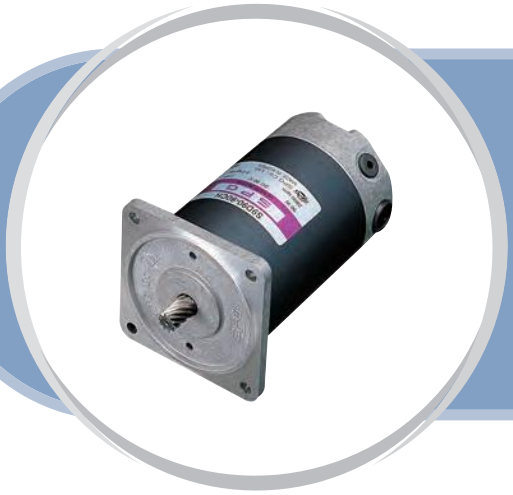
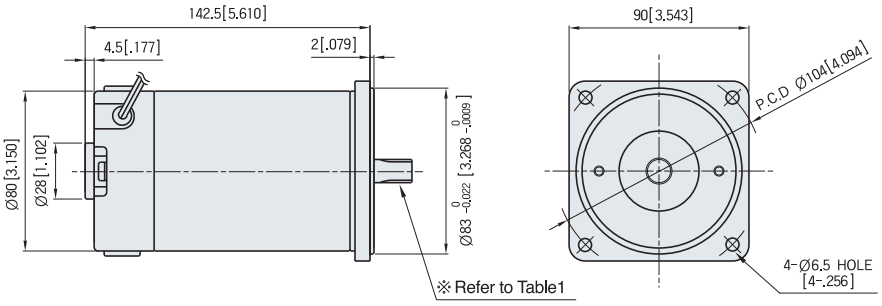


STANDARD TYPE

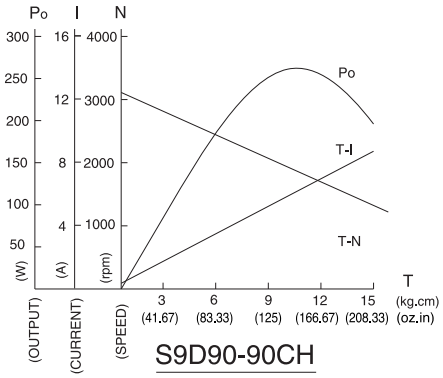
S9D SERIES [60~120W]

MOTOR DIMENSION

UNIT : mm[inch]

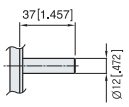
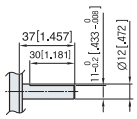
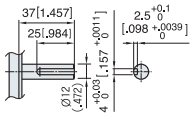


CHARACTERISTIC CURVE

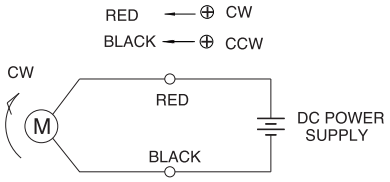


S9D90-90CH

▼ MOTOR 출력축 사양(SPEC for output shaft of motor) – (표1(Table1))

MODEL	GEARED TYPE	STRAIGHT TYPE	D-CUT TYPE	KEY TYPE
	S9D60-□CH S9D90-□CH S9D120-□CH	S9D60-□S S9D90-□S S9D120-□S	S9D60-□D S9D90-□D S9D120-□D	S9D60-□K S9D90-□K S9D120-□K
출력축 구분 (TYPE OF OUTPUT SHAFT)				

CIRCUIT DIAGRAM



회전방향은 MOTOR의 SHAFT 끝 쪽에서 볼때의 회전방향입니다.
(The direction of motor rotation is as viewed from the front shaft end of the motor)

MOTOR SPECIFICATION

(Voltage : DC 24V)

Type	Voltage	Output	No Load		At Rated Load				Run Duty	Weight
			Speed	Current(MAX.)	Speed	Torque		Current		
	V	W	RPM	A	RPM			A	Hr	Kg
S9D60-12□	12	60	3000	2.5	2650	0.216 30.5 2.20	N-m oz-in kgf · cm	7.9	2000	2.2
S9D60-24□	24	60	3000	1.2	2800	0.206 29.1 2.10	N-m oz-in kgf · cm	3.6	2000	2.2
S9D60-90□	90	60	3100	0.3	2900	0.196 27.8 2.00	N-m oz-in kgf · cm	1.0	2000	2.2
S9D90-12□	12	90	3100	3.0	2750	0.314 44.4 3.20	N-m oz-in kgf · cm	10.5	2000	2.2
S9D90-24□	24	90	3250	2.4	2920	0.304 43.0 3.10	N-m oz-in kgf · cm	5.6	2000	2.2
S9D90-90□	90	90	3100	0.3	2800	0.314 44.4 3.20	N-m oz-in kgf · cm	1.4	2000	2.2
S9D120-12□	12	120	3300	3.5	2800	0.412 58.3 4.20	N-m oz-in kgf · cm	14.9	2000	2.2
S9D120-24□	24	120	3300	2.0	2920	0.392 55.5 4.00	N-m oz-in kgf · cm	7.1	2000	2.2
S9D120-90□	90	120	3000	0.3	2600	0.441 62.4 4.50	N-m oz-in kgf · cm	2.0	2000	2.2

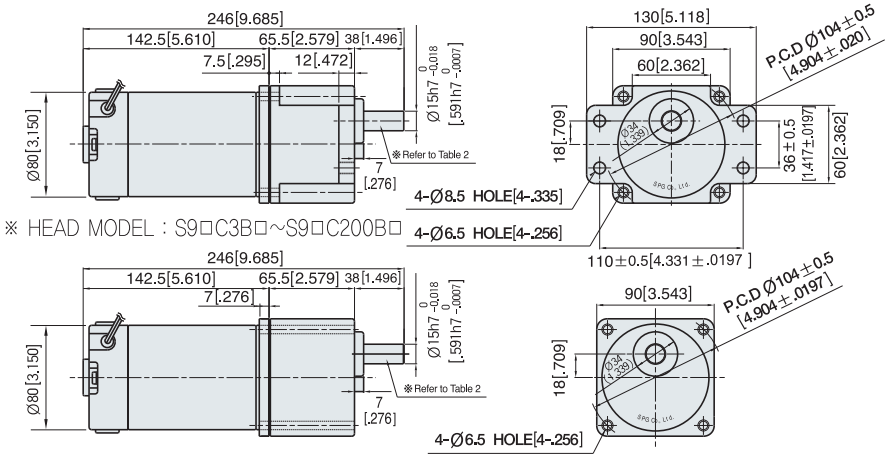
※ Run Duty는 정격전압인가 무부하 기준입니다.(Run duty is valued at rated Voltage and No load)

GEARED MOTOR SPECIFICATION

UNIT : mm[inch]

▼ GEARED MOTOR

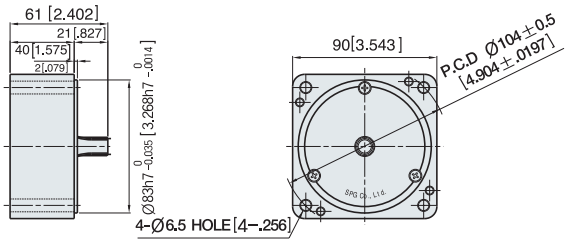
※ MOTOR MODEL : S9D60-□CH, S9D90-□CH, S9D120-□CH
※ HEAD MODEL : S9□C3B□-S~S9□C200B□-S



※ HEAD MODEL : S9□C3B□~S9□C200B□

▼ INTER-DECIMAL GEAR HEAD

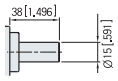
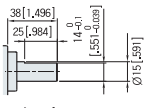
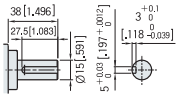
※ MODEL : S9GX10B(H,L)-S



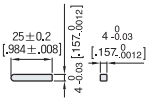
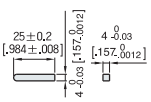
▼ ※30(40) - (표1(Table1))

PART		WEIGHT:kg(oz)
MOTOR		2.2(77.6)
DECIMAL GEAR HEAD		0.65(22.9)
GEAR HEAD	S9 □ C3B □ ~S9 □ C10B □	1.21(42.7)
	S9 □ C12.5B □ ~S9 □ C20B □	1.30(45.9)
	S9 □ C25B □ ~S9 □ C60B□	1.40(49.4)
	S9 □ C75B □ ~S9 □ C200B□	1.45(51.1)

▼ GEAR HEAD 출력축 사양(SPEC for output shaft of gearhead)-(표2(Table2))

MODEL	출력축 구분(TYPES OF OUTPUT SHAFT)
STRAIGHT TYPE	
S9SC3BH ~S9SC200BH	
D-CUT TYPE	
S9DC3BH ~S9DC200BH	
KEY TYPE	
S9KC3BH ~S9KC200BH	

▼ KEY SPEC

GEAR HEAD	MOTOR
	

GEAR HEAD RATED LOAD

S9D60-90CH

MODEL	GEAR RATIO	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
	No Load rpm	1033	861	620	517	413	344	310	248	207	172	155	124	103	86	78	62	52	41	34	31	26	21	17	16
S9KC□ B() S9KC□ B()-S	N-m	0.48	0.57	0.79	0.95	1.19	1.43	1.59	1.79	2.14	2.57	2.86	3.21	3.86	4.63	5.14	6.43	7.72	8.68	10.42	11.57	13.89	17.36	19.60	19.60
	oz-in	67.4	80.9	112.4	134.9	168.6	202.3	224.8	252.9	303.5	364.2	404.6	455.2	546.3	655.5	728.4	910.5	1092.5	1229.1	1474.9	1638.8	1966.6	2458.2	2775.4	2775.4
	kgf · cm	4.9	5.8	8.1	9.7	12.2	14.6	16.2	18.2	21.9	26.2	29.2	32.8	39.4	47.2	52.5	65.6	78.7	88.6	106.3	118.1	141.7	177.1	200.0	200.0

S9D90-90CH

MODEL	GEAR RATIO	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
	No Load rpm	1033	861	620	517	413	344	310	248	207	172	155	124	103	86	78	62	52	41	34	31	26	21	17	16
S9KC□ B() S9KC□ B()-S	N-m	0.76	0.91	1.27	1.52	1.91	2.29	2.54	2.86	3.43	4.12	4.57	5.14	6.17	7.41	8.23	10.29	12.35	13.89	16.67	18.52	19.60	19.60	19.60	19.60
	oz-in	107.9	129.5	179.8	215.8	269.8	323.7	359.7	404.6	485.6	582.7	647.4	728.4	874.0	1048.8	1165.4	1456.7	1748.1	1966.6	2359.9	2622.1	2775.4	2775.4	2775.4	2775.4
	kgf · cm	7.8	9.3	13.0	15.6	19.4	23.3	25.9	29.2	35.0	42.0	46.7	52.5	63.0	75.6	84.0	105.0	126.0	141.7	170.1	189.0	200.0	200.0	200.0	200.0

S9D120-90CH

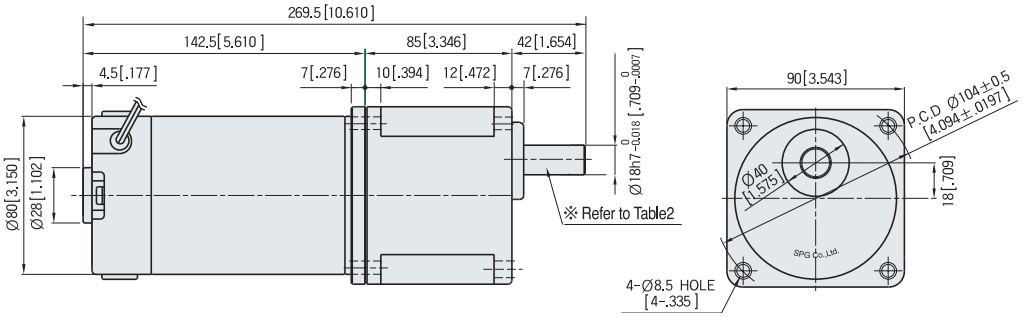
MODEL	GEAR RATIO	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	No Load rpm	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
S9KC□ BH S9KC□ BH-S	N-m	1.07	1.29	1.79	2.14	2.68	3.21	3.57	4.02	4.82	5.79	6.43	7.23	8.68	10.42	11.57	14.47	17.36	19.53	19.60	19.60	19.60	19.60	19.60	19.60
	oz-in	151.7	182.1	252.9	303.5	379.4	455.2	505.8	569.0	682.8	819.4	910.5	1024.3	1229.1	1474.9	1638.8	2048.5	2458.2	2765.5	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4
	kgf · cm	10.9	13.1	18.2	21.9	27.3	32.8	36.5	41.0	49.2	59.0	65.6	73.8	88.6	106.3	118.1	147.6	177.1	199.3	200.0	200.0	200.0	200.0	200.0	200.0

■ GEAR HEAD 품명중 ■은 감속비를 표시합니다.(The code in ■ of gearhead model is for gear ratio)
■ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다. 감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 30kg-cm입니다.(It is the permissible torque of the assembled motor and gearhead The permissible torque of the combination of the regular gearhead and the inter-decimal gearhead is 30kgf · cm.)
■ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향 입니다.(■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.)
■ 회전수는 MOTOR의 무부하 회전수를 기준으로 하여 감속비로 나누어서 계산하였습니다. 실제 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다. (No Load rpm equals Motor no load rpm divided by gear ratio. The actual rotation speed is less 2-20% than the displayed value according to the load)
■ 'L' Type 전용으로 기종명에 표시하지 않습니다.(There is no marked the 'L' code for it is an exclusive use.)

GEARED MOTOR SPECIFICATION

UNIT : mm[inch]

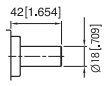
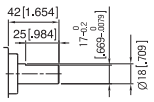
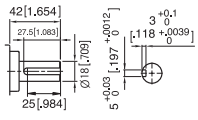
▼ GEARED MOTOR ※ MOTOR MODEL : S9D60-□CH, S9D90-□CH, S9D120-□CH
※ HEAD MODEL : S9□D3B~S9□D200B



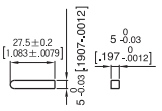
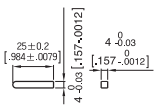
▼ ※30(40) - (표1(Table1))

PART		WEIGHT:kg(oz)
MOTOR		2.2(77.6)
GEAR HEAD	S9 □ D3B ~S9 □ D10B	1.65(58.2)
	S9 □ D12.5B ~S9 □ D20B	1.80(63.5)
	S9 □ D25B ~S9 □ D60B	1.90(67.0)
	S9 □ D75B ~S9 □ D200B	1.95(68.8)

▼ GEAR HEAD 출력축 사양(SPEC for output shaft of gearhead)-(표2(Table2))

MODEL	출력축 구분(TYPES OF OUTPUT SHAFT)
STRAIGHT TYPE	
S9SD3B ~S9SD200B	
D-CUT TYPE	
S9DD3B □□ ~S9DD200B □□	
KEY TYPE	
S9KD3B □□ ~S9KD200B □□	

▼ KEY SPEC

GEAR HEAD	MOTOR
	

GEAR HEAD RATED LOAD

S9D60-90CH

MODEL	GEAR RATIO	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
	No Load rpm	1033	861	620	517	413	344	310	248	207	172	155	124	103	86	78	62	52	41	34	31	26	21	17	16
S9KD□ B	N-m	0.48	0.57	0.79	0.95	1.19	1.43	1.59	1.79	2.14	2.57	2.86	3.21	3.86	4.63	5.14	6.43	7.72	8.68	10.42	11.57	13.89	17.36	20.83	23.15
	oz-in	67.4	80.9	112.4	134.9	168.6	202.3	224.8	252.9	303.5	364.2	404.6	455.2	546.3	655.5	728.4	910.5	1092.5	1229.1	1474.9	1638.8	1966.6	2458.2	2949.9	3277.6
	kgf · cm	4.9	5.8	8.1	9.7	12.2	14.6	16.2	18.2	21.9	26.2	29.2	32.8	39.4	47.2	52.5	65.6	78.7	88.6	106.3	118.1	141.7	177.1	212.6	236.2

S9D90-90CH

MODEL	GEAR RATIO	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
	No Load rpm	1033	861	620	517	413	344	310	248	207	172	155	124	103	86	78	62	52	41	34	31	26	21	17	16
S9KD□ B	N-m	0.76	0.91	1.27	1.52	1.91	2.29	2.54	2.86	3.43	4.12	4.57	5.14	6.17	7.41	8.23	10.29	12.35	13.89	16.67	18.52	22.22	27.78	29.40	29.40
	oz-in	107.9	129.5	179.8	215.8	269.8	323.7	359.7	404.6	485.6	582.7	647.4	728.4	874.0	1048.8	1165.4	1456.7	1748.1	1966.6	2359.9	2622.1	3146.5	3933.2	4163.0	4163.0
	kgf · cm	7.8	9.3	13.0	15.6	19.4	23.3	25.9	29.2	35.0	42.0	46.7	52.5	63.0	75.6	84.0	105.0	126.0	141.7	170.1	189.0	226.7	283.4	300.0	300.0

S9D120-90CH

MODEL	GEAR RATIO	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
	No Load rpm	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
S9KD□ B	N-m	1.07	1.29	1.79	2.14	2.68	3.21	3.57	4.02	4.82	5.79	6.43	7.23	8.68	10.42	11.57	14.47	17.36	19.53	23.44	26.04	29.40	29.40	29.40	29.40
	oz-in	151.7	182.1	252.9	303.5	379.4	455.2	505.8	569.0	682.8	819.4	910.5	1024.3	1229.1	1474.9	1638.8	2048.5	2458.2	2765.5	3318.6	3687.4	4163.0	4163.0	4163.0	4163.0
	kgf · cm	10.9	13.1	18.2	21.9	27.3	32.8	36.5	41.0	49.2	59.0	65.6	73.8	88.6	106.3	118.1	147.6	177.1	199.3	239.1	265.7	300.0	300.0	300.0	300.0

■ GEAR HEAD 품명중 ■은 감속비를 표시합니다.(The code in ■ of gearhead model is for gear ratio)
■ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다. 감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 30kg-cm입니다.(It is the permissible torque of the assembled motor and gearhead The permissible torque of the combination of the regular gearhead and the inter-decimal gearhead is 30kgf · ㎝.)
■ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향 입니다.(■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.)
■ 회전수는 MOTOR의 무부하 회전수를 기준으로 하여 감속비로 나누어서 계산하였습니다. 실제 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
(No Load rpm equals Motor no load rpm divided by gear ratio. The actual rotation speed is less 2-20% than the displayed value according to the load)
■ 'L' Type 전용으로 기종명에 표시하지 않습니다.(There is no marked the 'L' code for it is an exclusive use.)