120W

INDUCTION MOTOR □90㎜ LEAD WIRE TYPE

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load Current (A)	Rated Load Speed (rpm)	Rated Load Torque (kg-cm)	Rated Load Torque (N-m)	Starting Torque (kg-cm)	Starting Torque (N-m)	Capacitor (uF)
90	S9I120GA S9I120GA(TP) S9I120GACE	4	120	1 Ø 110	60	Cont.	2.10	1600	7.60	0.760	6.20	0.620	25.0
	S9I120GB S9I120GB(TP) S9I120GBCE	4	120	1 Ø 220	60	Cont.	1.00	1600	7.50	0.750	6.00	0.600	6.0
	S9I120GC S9I120GC(TP) S9I120GCCE	4	120	1 Ø 100	50	Cont.	2.00	1250	9.60	0.960	5.70	0.570	25.0
					60			1550	7.90	0.790			
	S9I120GD S9I120GD(TP) S9I120GDCE	4	120	1 Ø 200	50	Cont.	1.00	1250	9.50	0.950	5.50	0.550	6.0
					60			1550	7.80	0.780			

❖ 기종명 맨 끝자리에 CE가 명기된 MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오. (CE marked at the end of model name indicates that it is thermally protected type which has received CE with built-in TP.)
❖ 기종명 맨 끝자리에 (TP)가 명기된 MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다. (TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.)
❖ 'H' Type 전용으로 기종명에 표시하지 않습니다. (Only "H" type is applicable.)

50Hz

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
	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
S9KC□BH	kg-cm	23.2	27.8	38.7	46.4	58.0	69.6	77.4	87.0	104	125	139	156	188	200	200	200	200	200	200	200	200	200	200	200
S9KC□BH-S	N·m	2.276	2.731	3.793	4.552	5.689	6.827	7.586	8.534	10.24	12.29	13.65	15.36	18.43	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61

60Hz

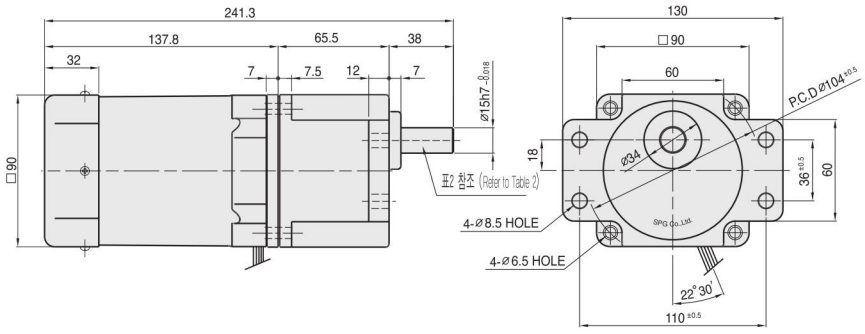
MODEL \ GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S9KC□BH	kg-cm	18.7	22.5	31.2	37.4	46.8	56.1	62.4	70.2	84.2	101	112	126	152	182	200	200	200	200	200	200	200	200	200	200
S9KC□BH-S	N·m	1.835	2.202	3.058	3.670	4.587	5.505	6.116	6.881	8.257	9.909	11.01	12.39	14.86	17.84	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61

❖ GEAR HEAD 품명중 □은 감속비를 표시합니다. (The code in □ of gearhead model is for gear ratio.)
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다. (It is the permissible torque of the assembled motor and gearhead.)
❖ 감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 200㎏-㎝입니다. (The permissible torque of the motor and inter-decimal gearhead is 200 kg-cm.)
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다. (■ 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 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다. 실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다. (Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio. The actual rotation speed can be 2~20% less than displayed value depending on the load.)
❖ 'H' Type만 적용됩니다. (Only "H" type is applicable.)

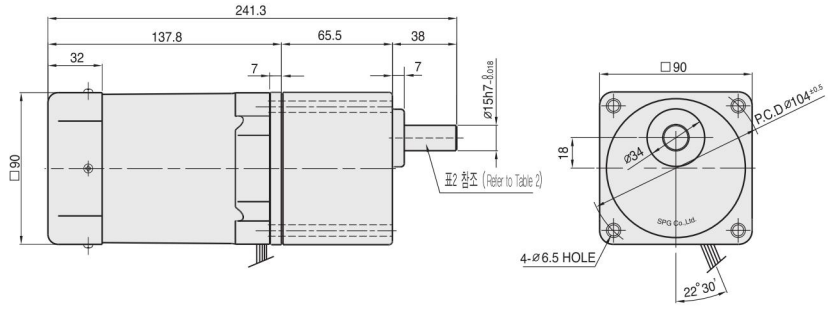
DIMENSIONS

✚ GEARED MOTOR

※MOTOR MODEL : S9I120G□
※HEAD MODEL : S9□C3BH-S~S9□C200BH-S

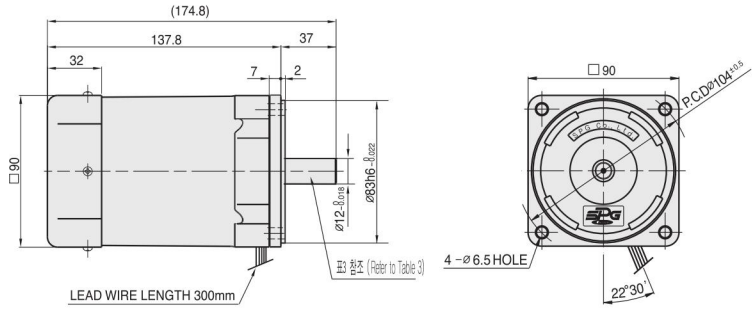


※HEAD MODEL □ : S9□C3BH~S9□C200BH



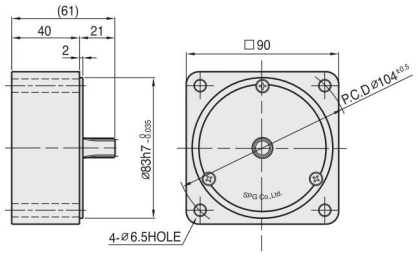
✚ MOTOR

※MOTOR MODEL : S9I120□□



✚ INTER-DECIMAL GEAR HEAD

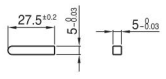
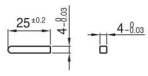
※ MODEL : S9GX10BH-S



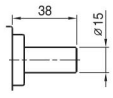
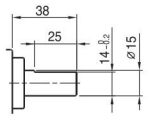
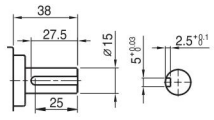
✚ WEIGHT – (표1 (Table1))

PART		WEIGHT(kg)
MOTOR		2.93
DECIMAL GEAR HEAD		0.65
GEAR HEAD	S9□C3BH ~S9□C10BH	1.21
	S9□C12.5BH ~S9□C20BH	1.30
	S9□C25BH ~S9□C60BH	1.40
	S9□C75BH ~S9□C200BH	1.45

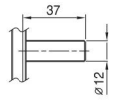
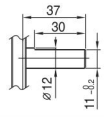
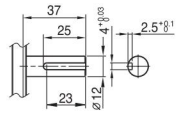
✚ KEY SPEC

GEAR HEAD	MOTOR
	

✚ 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	

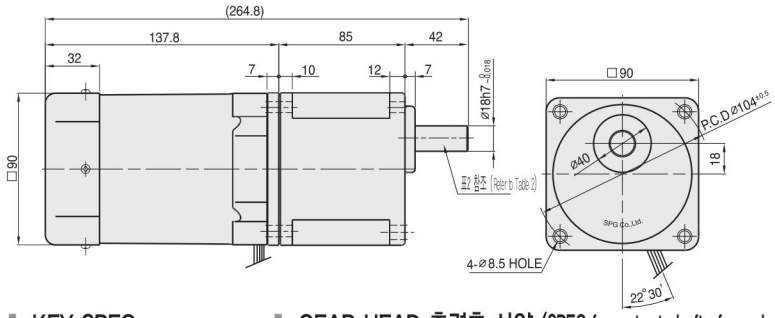
✚ MOTOR 출력축 사양 (SPEC for output shaft of motor) – (표3 (Table3))

MODEL	출력축 구분 (TYPES OF OUTPUT SHAFT)
GEAR TYPE S9I120G□	
STRAIGHT TYPE S9I120S□	
D-CUT TYPE S9I120D□	
KEY TYPE S9I120□	

DIMENSIONS

GEARED MOTOR

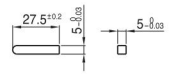
※MOTOR MODEL : S9I120G□
※HEAD MODEL □ : S9□D3B~S9□D200B



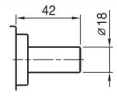
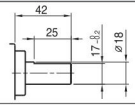
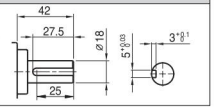
WEIGHT - (표1 (Table1))

PART		WEIGHT(kg)
MOTOR		2.93
GEAR HEAD	S9□D3B ~S9□D10B	1.65
	S9□D12.5B ~S9□D20B	1.80
	S9□D25B ~S9□D60B	1.90
	S9□D75B ~S9□D200B	1.95

KEY SPEC

GEAR HEAD


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

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

50Hz

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
	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
S9KD□B	kg-cm	23.2	27.8	38.7	46.4	58.0	69.6	77.4	87.0	104	125	139	156	188	225	250	300	300	300	300	300	300	300	300	300
	N·m	2.276	2.731	3.793	4.552	5.689	6.827	7.586	8.534	10.24	12.29	13.65	15.36	18.43	22.12	24.58	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42

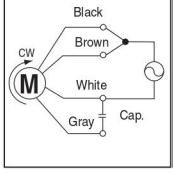
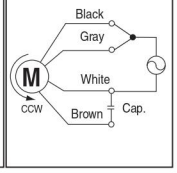
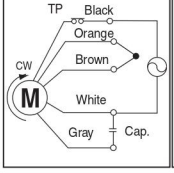
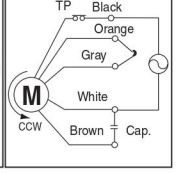
60Hz

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
	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S9KD□B	kg-cm	18.7	22.5	31.2	37.4	46.8	56.1	62.4	70.2	84.2	101	112	126	152	182	202	252	300	300	300	300	300	300	300	300
	N·m	1.835	2.202	3.058	3.670	4.587	5.505	6.116	6.881	8.757	9.909	11.01	12.39	14.86	17.84	19.82	24.77	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42

❖ GEAR HEAD 품명중 □은 감속비를 표시 합니다. (The code in □ of gearhead model is for gear ratio.)
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다. (It is the permissible torque of the assembled motor and gearhead.)
❖ 감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 300㎏-㎝입니다. (The permissible torque of the motor and inter-decimal gearhead is 300 kg-cm.)
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다. (■ 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 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다. 실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다. (Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio. The actual rotation speed can be 2~20% less than displayed value depending on the load.)
❖ 'H' Type 전용으로 기종명에 표시하지 않습니다. MOTOR의 H와 사용하여 주십시오. (Only "H" type is applicable. Please use 'H' type motor.)

SCHEMATIC DIAGRAMS

회전방향은 MOTOR의 SHAFT 끝쪽에서 볼 때의 회전방향입니다. (The direction of motor rotation is as viewed from the front shaft end of the motor.)

S9I120GA S9I120GB S9I120GC S9I120GD		S9I120GA(TP) S9I120GB(TP) S9I120GC(TP) S9I120GD(TP) S9I120GACE S9I120GBCE S9I120GCCE S9I120GDCE	
CW	**CCW**	**CW**	**CCW**
			

주의 : MOTOR 회전 방향의 교환은 MOTOR가 완전히 정지한 후에 실시하여 주십시오. MOTOR가 회전 중에 회전방향을 교환할 경우 회전방향이 바뀌지 않거나 회전방향이 바뀌어지는 데 있어서 시간이 걸리는 수도 있습니다. (Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.)