SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR (E · S MOTOR)

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6W

E · S MOTOR □60㎜ LEAD WIRE TYPE

SPECIFICATION OF SR TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
60	S6R06GA-ES12 S6R06GA-ES12CE	SRA01 SRA01CE	4	6	1Ø 110	60	30min.	90-1700	0.62	0.062	0.45	0.045	0.55	0.055	3.0
	S6R06GB-ES12 S6R06GB-ES12CE	SRB01 SRB01CE	4	6	1Ø 220	60	30min.	90-1700	0.62	0.062	0.45	0.045	0.55	0.055	0.8
	S6R06GC-ES12 S6R06GC-ES12CE	SRC01 SRC01CE	4	6	1Ø 100	50 60	30min.	90-1400 90-1700	0.56	0.056	0.38	0.038	0.50	0.050	3.0
	S6R06GD-ES12 S6R06GD-ES12CE	SRD01 SRD01CE	4	6	1Ø 200	50 60	30min.	90-1400 90-1700	0.55	0.055	0.38	0.038	0.50	0.050	0.8
	S6R06GX-ES12 S6R06GX-ES12CE	SRX01 SRX01CE	4	6	1Ø 220 1Ø 240	50	30min.	90-1400	0.47 0.52	0.047 0.052	0.38 0.38	0.038 0.038	0.45 0.52	0.045 0.052	0.7

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 CE가 명기된 SR TYPE CONTROLLER MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

SPECIFICATION OF SOCKET SS TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
60	S6R06GA-ES24 S6R06GA-ES24CE	SSA01-SRSS SSA03-SRSS	4	6	1Ø 110	60	30min.	90-1700	0.62	0.062	0.45	0.045	0.55	0.055	3.0
	S6R06GB-ES24 S6R06GB-ES24CE	SSB01-SRSS SSB03-SRSS	4	6	1Ø 220	60	30min.	90-1700	0.62	0.062	0.45	0.045	0.55	0.055	0.8
	S6R06GC-ES24 S6R06GC-ES24CE	SSC01-SRSS SSC03-SRSS	4	6	1Ø 100	50 60	30min.	90-1400 90-1700	0.56	0.056	0.38	0.038	0.50	0.050	3.0
	S6R06GD-ES24 S6R06GD-ES24CE	SSD01-SRSS SSD03-SRSS	4	6	1Ø 200	50 60	30min.	90-1400 90-1700	0.55	0.055	0.38	0.038	0.50	0.050	0.8
	S6R06GX-ES24 S6R06GX-ES24CE	SSX01-SRSS SSX03-SRSS	4	6	1Ø 220 1Ø 240	50	30min.	90-1400	0.47 0.52	0.047 0.052	0.38 0.38	0.038 0.038	0.45 0.52	0.045 0.052	0.7

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

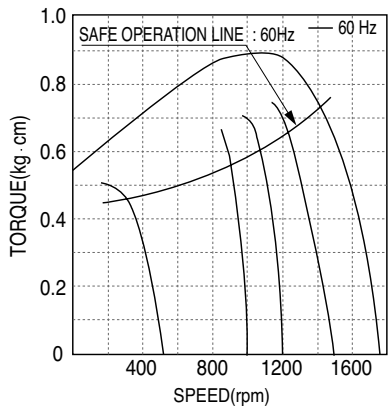
50Hz

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	250
MODEL	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	6
S6DA□B	kg·cm	1.3	1.5	2.1	2.6	3.2	3.9	4.3	5.4	6.4	7.7	7.7	9.7	11.6	13.9	15.5	17.5	21.0	26.2	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	N·m	0.127	0.147	0.206	0.255	0.314	0.382	0.421	0.529	0.627	0.755	0.755	0.951	1.137	1.362	1.519	1.715	2.058	2.568	2.942	2.942	2.942	2.942	2.942	2.942	2.942

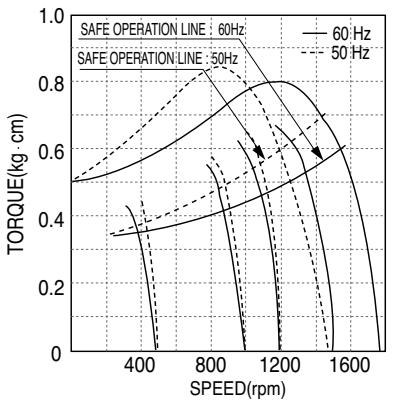
60Hz

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	250
MODEL	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	7.2
S6DA□B	kg·cm	1.0	1.3	1.7	2.1	2.6	3.1	3.5	4.4	5.2	6.3	6.3	7.8	9.4	11.3	12.6	14.2	17.0	21.3	25.5	28.4	30.0	30.0	30.0	30.0	30.0
	N·m	0.098	0.127	0.167	0.206	0.255	0.304	0.343	0.431	0.510	0.617	0.617	0.764	0.921	1.107	1.235	1.392	1.666	2.087	2.499	2.783	2.942	2.942	2.942	2.942	2.942

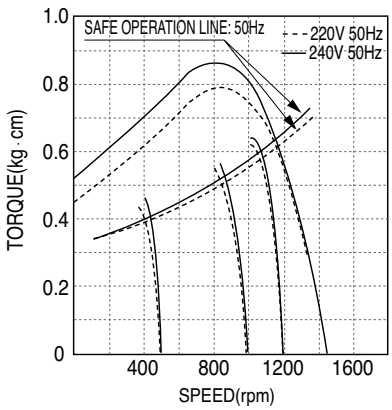
❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다.
감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 30㎏-㎝입니다.
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다.
실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.



▲ S6R06GA-ES12 S6R06GA-ES24
S6R06GA-ES12CE S6R06GA-ES24CE
S6R06GB-ES12 S6R06GB-ES24
S6R06GB-ES12CE S6R06GB-ES24



▲ S6R06GC-ES12 S6R06GC-ES24
S6R06GC-ES12CE S6R06GC-ES24CE
S6R06GD-ES12 S6R06GD-ES24
S6R06GD-ES12CE S6R06GD-ES24CE

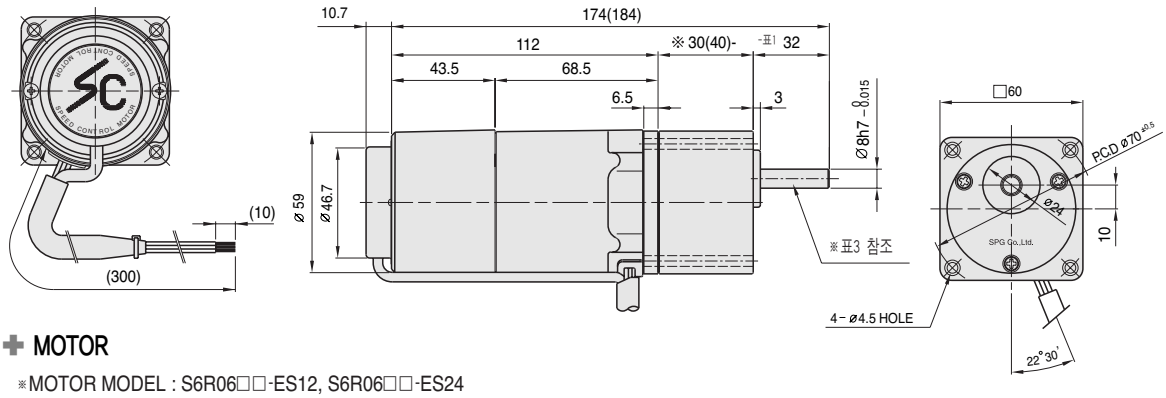


▲ S6R06GX-ES12 S6R06GX-ES24
S6R06GX-ES12CE S6R06GX-ES24CE

DIMENSIONS

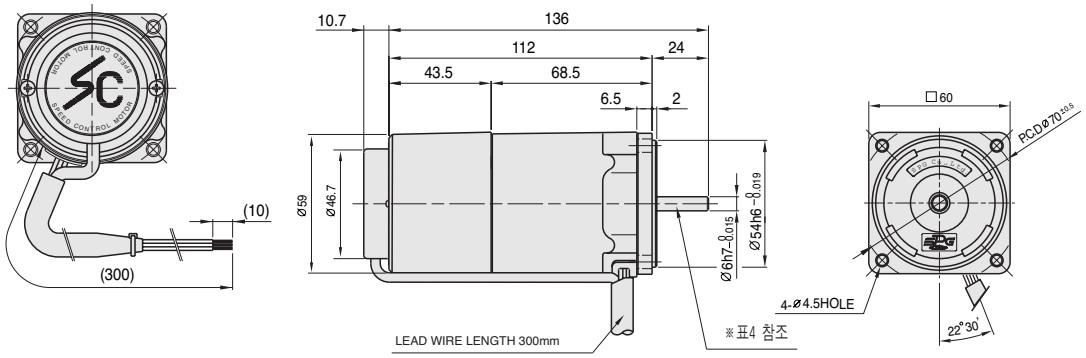
✚ GEARED MOTOR

※MOTOR MODEL : S6R06G□-ES12, S6R06G□-ES24
※HEAD MODEL : S6□A3□~S6□A250□



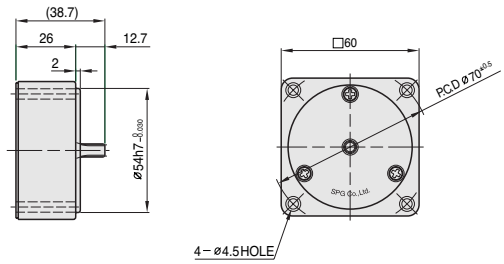
✚ MOTOR

※MOTOR MODEL : S6R06□□-ES12, S6R06□□-ES24

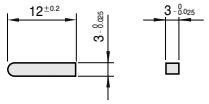


✚ INTER-DECIMAL GEAR HEAD

※MODEL : S6GX10B



✚ KEY SPEC

GEAR HEAD


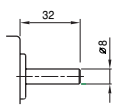
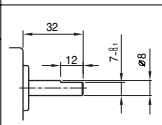
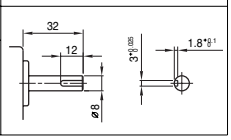
✚ ※30(40) - (표1)

GEAR RATIO	SIZE(㎜)
S6□A3□ ~ S6□A18□	30
S6□A20□ ~ S6□A250□	40

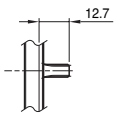
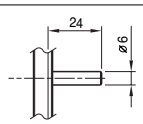
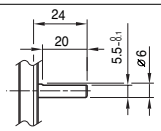
✚ WEIGHT - (표2)

PART		WEIGHT(kg)
MOTOR		1.00
DECIMAL GEAR HEAD		0.18
GEAR HEAD	S6□A3□ ~S6□A18□	0.24
	S6□A20□ ~S6□A40□	0.30
	S6□A50□ ~S6□A250□	0.33

✚ GEAR HEAD 출력축 사양 - (표3)

MODEL	출력축 구분
STRAIGHT TYPE S6SA3□ ~S6SA250□	
D-CUT TYPE S6DA3□ ~S6DA250□	
KEY TYPE S6KA3□ ~S6KA250□	

✚ MOTOR 출력축 사양 - (표4)

MODEL	출력축 구분
GEAR TYPE S6R06G□-ES12 S6R06G□-ES24	
STRAIGHT TYPE S6R06S□-ES12 S6R06S□-ES24	
D-CUT TYPE S6R60D□-ES12 S6R60D□-ES24	

15W

E · S MOTOR □70㎜ LEAD WIRE TYPE

SPECIFICATION OF SR TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
70	S7R15GA-ES12 S7R15GA-ES12(TP) S7R15GA-ES12CE	SRA02 SRA02CE	4	15	1Ø 110	60	30min.	90-1700	1.40	0.140	0.70	0.070	1.30	0.130	6.0
	S7R15GB-ES12 S7R15GB-ES12(TP) S7R15GB-ES12CE	SRB02 SRB02CE	4	15	1Ø 220	60	30min.	90-1700	1.40	0.140	0.70	0.070	1.30	0.130	1.5
	S7R15GC-ES12 S7R15GC-ES12(TP) S7R15GC-ES12CE	SRC02 SRC02CE	4	15	1Ø 100	50	30min.	90-1400	1.10	0.110	0.60	0.060	1.00	0.100	6.0
						60		90-1700	0.90	0.090					
	S7R15GD-ES12 S7R15GD-ES12(TP) S7R15GD-ES12CE	SRD02 SRD02CE	4	15	1Ø 200	50	30min.	90-1400	1.10	0.110	0.60	0.060	1.00	0.100	1.5
						60		90-1700	0.90	0.090					
	S7R15GX-ES12 S7R15GX-ES12CE	SRX02 SRX02CE	4	15	1Ø 220	50	30min.	90-1400	1.00	0.100	0.55	0.055	0.90	0.090	1.2
					1Ø 240				1.15	0.115	0.60	0.060	1.00	0.100	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 CE가 명기된 SR TYPE CONTROLLER MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S7R15GX-ES12, S7R15GX-ES12CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

SPECIFICATION OF SS TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
70	S7R15GA-ES24 S7R15GA-ES24(TP) S7R15GA-ES24CE	SSA02-SRSS SSA03-SRSS	4	15	1Ø 110	60	30min.	90-1700	1.40	0.140	0.70	0.070	1.30	0.130	6.0
	S7R15GB-ES24 S7R15GB-ES24(TP) S7R15GB-ES24CE	SSB02-SRSS SSB03-SRSS	4	15	1Ø 220	60	30min.	90-1700	1.40	0.140	0.70	0.070	1.30	0.130	1.5
	S7R15GC-ES24 S7R15GC-ES24(TP) S7R15GC-ES24CE	SSC02-SRSS SSC03-SRSS	4	15	1Ø 100	50	30min.	90-1400	1.10	0.110	0.60	0.060	1.00	0.100	6.0
						60		90-1700	0.90	0.090					
	S7R15GD-ES24 S7R15GD-ES24(TP) S7R15GD-ES24CE	SSD02-SRSS SSD03-SRSS	4	15	1Ø 200	50	30min.	90-1400	1.10	0.110	0.60	0.060	1.00	0.100	1.5
						60		90-1700	0.90	0.090					
	S7R15GX-ES24 S7R15GX-ES24CE	SSX02-SRSS SSX03-SRSS	4	15	1Ø 220	50	30min.	90-1400	1.00	0.100	0.55	0.055	0.90	0.090	1.2
					1Ø 240				1.15	0.115	0.60	0.060	1.00	0.100	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S7R15GX-ES24, S7R15GX-ES24CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

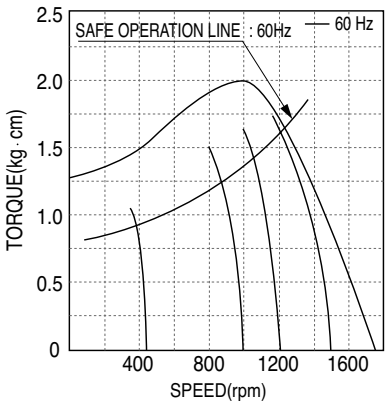
50Hz

GEAR RATIO / MODEL		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
S7KA□B	kg-cm	3.2	3.9	5.4	6.5	8.1	9.7	10.8	13.5	16.2	19.4	19.4	24.2	29.1	34.9	38.8	43.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	N·m	0.314	0.382	0.530	0.637	0.794	0.951	1.059	1.324	1.587	1.902	1.902	2.373	2.854	3.423	3.805	4.276	4.900	4.900	4.900	4.900	4.900	4.900	4.900	4.900

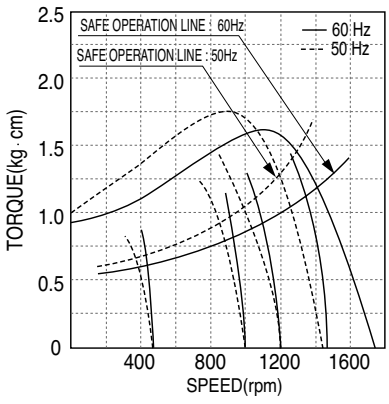
60Hz

GEAR RATIO / MODEL		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
S7KA□B	kg-cm	3.0	3.6	5.1	6.1	7.6	9.1	10.1	12.7	15.2	18.2	18.2	22.8	27.3	32.8	36.5	41.0	49.2	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	N·m	0.294	0.353	0.500	0.598	0.745	0.892	0.990	1.245	1.491	1.785	1.785	2.236	2.677	3.217	3.579	4.021	4.825	4.900	4.900	4.900	4.900	4.900	4.900	4.900

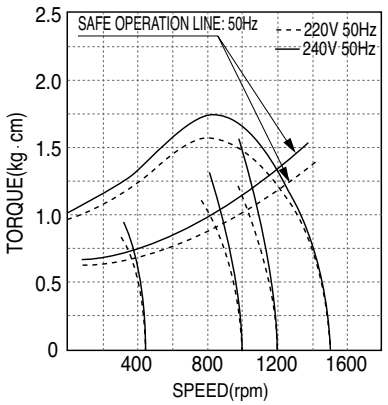
❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다.
감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 40㎏-㎝입니다.
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다.
실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.



▲ S7R15GA-ES12 S7R15GA-ES24
S7R15GA-ES12(TP) S7R15GA-ES24(TP)
S7R15GA-ES12CE S7R15GA-ES24CE
S7R15GB-ES12 S7R15GB-ES24
S7R15GB-ES12(TP) S7R15GB-ES24(TP)
S7R15GB-ES12CE S7R15GB-ES24CE



▲ S7R15GC-ES12 S7R15GC-ES24
S7R15GC-ES12(TP) S7R15GC-ES24(TP)
S7R15GC-ES12CE S7R15GC-ES24CE
S7R15GD-ES12 S7R15GD-ES24
S7R15GD-ES12(TP) S7R15GD-ES24(TP)
S7R15GD-ES12CE S7R15GD-ES24CE

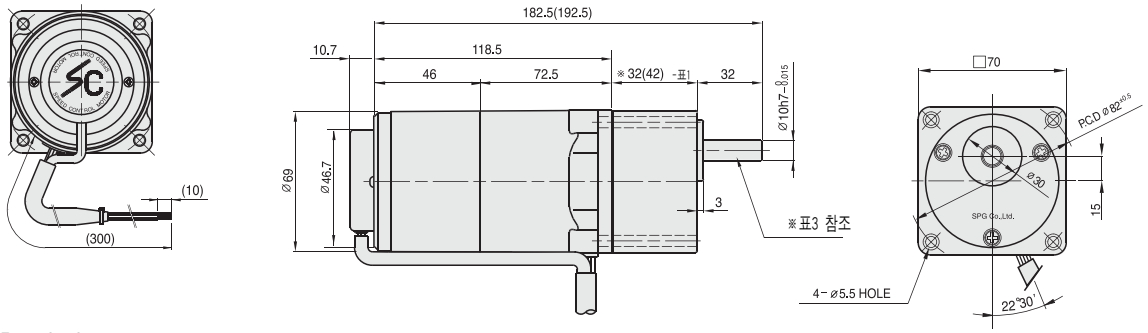


▲ S7R15GX-ES12 S7R15GX-ES24
S7R15GX-ES12CE S7R15GX-ES24CE

DIMENSIONS

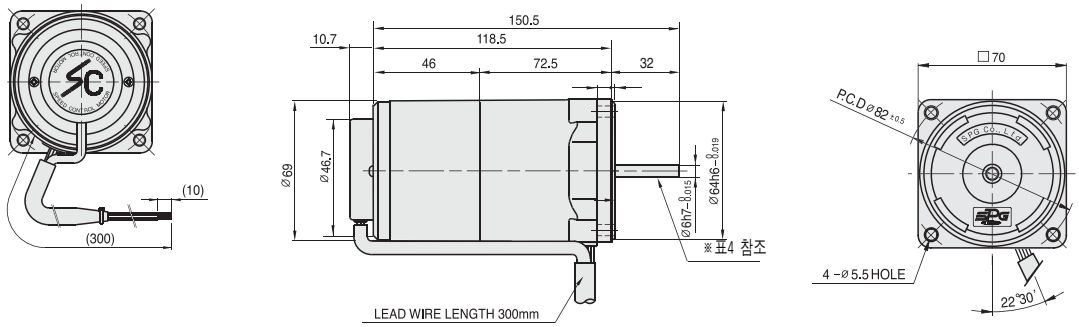
✚ GEARED MOTOR

※MOTOR MODEL : S7R15G□-ES12, S7R15G□-ES24
※HEAD MODEL : S7□A3□~S7□A200□



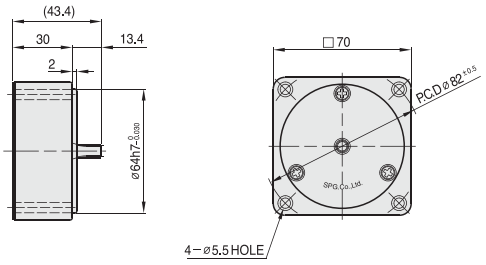
✚ MOTOR

※MOTOR MODEL : S7R15□□-ES12, S7R15□□-ES24

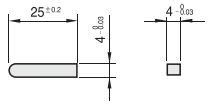


✚ INTER-DECIMAL GEAR HEAD

※ MODEL : S7GX10B



✚ KEY SPEC

GEAR HEAD


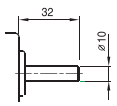
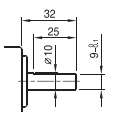
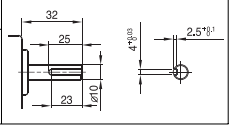
✚ ※32(42) - (표1)

GEAR RATIO	SIZE(mm)
S7□A3□ ~ S7□A18□	32
S7□A20□ ~ S7□A200□	42

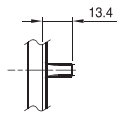
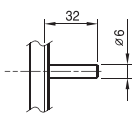
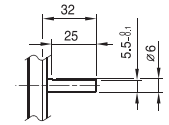
✚ WEIGHT - (표2)

PART		WEIGHT(kg)
MOTOR		1.04
DECIMAL GEAR HEAD		0.32
GEAR HEAD	S7□A3□ ~S7□A18□	0.38
	S7□A20□ ~S7□A40□	0.47
	S7□A50□ ~S7□A200□	0.52

✚ GEAR HEAD 출력축 사양 - (표3)

MODEL	출력축 구분
STRAIGHT TYPE S7SA3□ ~S7SA200□	
D-CUT TYPE S7DA3□ ~S7DA200□	
KEY TYPE S7KA3□ ~S7KA200□	

✚ MOTOR 출력축 사양 - (표4)

MODEL	출력축 구분
GEAR TYPE S7R15G□-ES12 S7R15G□-ES24	
STRAIGHT TYPE S7R15S□-ES12 S7R15S□-ES24	
D-CUT TYPE S7R15D□-ES12 S7R15D□-ES24	

15W

E · S MOTOR □80㎜ LEAD WIRE TYPE

SPECIFICATION OF SR TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
80	S8R15GA-ES12 S8R15GA-ES12(TP) S8R15GA-ES12CE	SRA02 SRA02CE	4	15	1Ø 110	60	30min.	90-1700	1.45	0.145	0.60	0.060	0.90	0.090	6.0
	S8R15GB-ES12 S8R15GB-ES12(TP) S8R15GB-ES12CE	SRB02 SRB02CE	4	15	1Ø 220	60	30min.	90-1700	1.45	0.145	0.55	0.055	0.90	0.090	1.5
	S8R15GC-ES12 S8R15GC-ES12(TP) S8R15GC-ES12CE	SRC02 SRC02CE	4	15	1Ø 100	50	30min.	90-1400	1.32	0.132	0.50	0.050	0.75	0.075	6.0
						60		90-1700	1.15	0.115					
	S8R15GD-ES12 S8R15GD-ES12(TP) S8R15GD-ES12CE	SRD02 SRD02CE	4	15	1Ø 200	50	30min.	90-1400	1.32	0.132	0.50	0.050	0.75	0.075	1.5
						60		90-1700	1.15	0.115					
	S8R15GX-ES12	SRX02 SRX02CE	4	15	1Ø 220	50	30min.	90-1400	1.35	0.135	0.50	0.050	0.75	0.075	1.2
	S8R15GX-ES12CE				1Ø 240				1.44	0.144	0.50	0.050	0.86	0.086	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 CE가 명기된 SR TYPE CONTROLLER MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S8R15GX-ES12, S8R15GX-ES12CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

SPECIFICATION OF SS TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
80	S8R15GA-ES24 S8R15GA-ES24(TP) S8R15GA-ES24CE	SSA02-SRSS SSA03-SRSS	4	15	1Ø 110	60	30min.	90-1700	1.45	0.145	0.60	0.060	0.90	0.090	6.0
	S8R15GB-ES24 S8R15GB-ES24(TP) S8R15GB-ES24CE	SSB02-SRSS SSB03-SRSS	4	15	1Ø 220	60	30min.	90-1700	1.45	0.145	0.55	0.055	0.90	0.090	1.5
	S8R15GC-ES24 S8R15GC-ES24(TP) S8R15GC-ES24CE	SSC02-SRSS SSC03-SRSS	4	15	1Ø 100	50	30min.	90-1400	1.32	0.132	0.50	0.050	0.75	0.075	6.0
						60		90-1700	1.15	0.115					
	S8R15GD-ES24 S8R15GD-ES24(TP) S8R15GD-ES24CE	SSD02-SRSS SSD03-SRSS	4	15	1Ø 200	50	30min.	90-1400	1.32	0.132	0.50	0.050	0.75	0.075	1.5
						60		90-1700	1.15	0.115					
	S8R15GX-ES24	SSX02-SRSS SSX03-SRSS	4	15	1Ø 220	50	30min.	90-1400	1.35	0.135	0.50	0.050	0.75	0.075	1.2
	S8R15GX-ES24CE				1Ø 240				1.44	0.144	0.50	0.050	0.86	0.086	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S8R15GX-ES24, S8R15GX-ES24CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

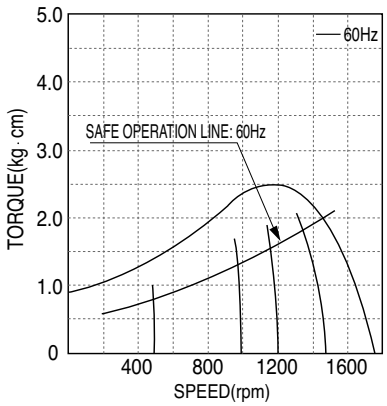
50Hz

GEAR RATIO / MODEL		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
S8KA□B	kg-cm	3.4	4.1	5.7	6.8	8.5	10.2	11.3	14.2	17.0	20.4	20.4	25.6	30.7	36.8	40.9	46.2	55.4	69.2	80	80	80	80	80	80
	N·m	0.333	0.402	0.559	0.666	0.833	1.000	1.107	1.392	1.666	1.999	1.999	2.509	3.009	3.606	4.008	4.530	5.433	6.786	7.840	7.840	7.840	7.840	7.840	7.840

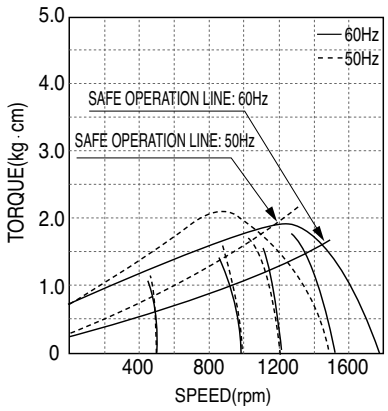
60Hz

GEAR RATIO / MODEL		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
S8KA□B	kg-cm	2.9	3.5	4.9	5.8	7.3	8.7	9.7	12.2	14.6	17.5	17.5	21.9	26.3	31.5	35.0	39.6	47.5	59.4	71.3	79.2	80	80	80	80
	N·m	0.284	0.343	0.481	0.568	0.715	0.853	0.951	1.196	1.432	1.715	1.715	2.146	2.577	3.087	3.430	3.881	4.658	5.825	6.992	7.767	7.840	7.840	7.840	7.840

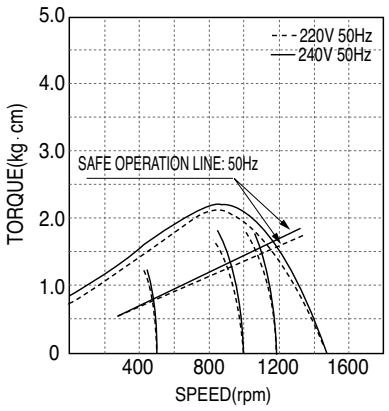
❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다.
감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 80㎏-㎝입니다.
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다.
실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.



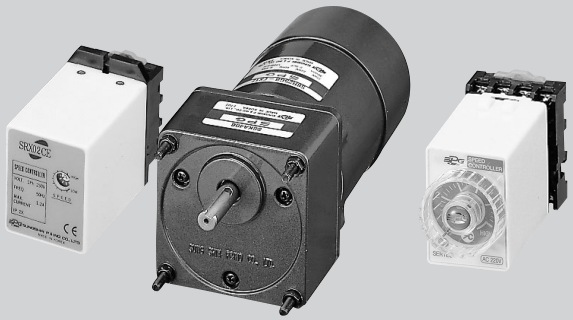
▲ S8R15GA-ES12 S8R15GA-ES24
S8R15GA-ES12(TP) S8R15GA-ES24(TP)
S8R15GA-ES12CE S8R15GA-ES24CE
S8R15GB-ES12 S8R15GB-ES24
S8R15GB-ES12(TP) S8R15GB-ES24(TP)
S8R15GB-ES12CE S8R15GB-ES24CE



▲ S8R15GC-ES12 S8R15GC-ES24
S8R15GC-ES12(TP) S8R15GC-ES24(TP)
S8R15GC-ES12CE S8R15GC-ES24CE
S8R15GD-ES12 S8R15GD-ES24
S8R15GD-ES12(TP) S8R15GD-ES24(TP)
S8R15GD-ES12CE S8R15GD-ES24CE



▲ S8R15GX-ES12 S8R15GX-ES24
S8R15GX-ES12CE S8R15GX-ES24CE



25W

E · S MOTOR □80㎜ LEAD WIRE TYPE

SPECIFICATION OF SR TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
80	S8R25GA-ES12 S8R25GA-ES12(TP) S8R25GA-ES12CE	SRA02 SRA02CE	4	25	1Ø 110	60	30min.	90-1700	2.45	0.245	0.90	0.090	1.90	0.190	10.0
	S8R25GB-ES12 S8R25GB-ES12(TP) S8R25GB-ES12CE	SRB02 SRB02CE	4	25	1Ø 220	60	30min.	90-1700	2.45	0.245	0.90	0.090	1.90	0.190	2.5
	S8R25GC-ES12 S8R25GC-ES12(TP) S8R25GC-ES12CE	SRC02 SRC02CE	4	25	1Ø 100	50	30min.	90-1400	2.25	0.225	0.75	0.075	1.75	0.175	10.0
						60		90-1700	2.00	0.200					
	S8R25GD-ES12 S8R25GD-ES12(TP) S8R25GD-ES12CE	SRD02 SRD02CE	4	25	1Ø 200	50	30min.	90-1400	2.25	0.225	0.75	0.075	1.75	0.175	2.5
						60		90-1700	2.00	0.200					
	S8R25GX-ES12 S8R25GX-ES12CE	SRX02 SRX02CE	4	25	1Ø 220	50	30min.	90-1400	2.30	0.230	0.75	0.075	1.75	0.175	2.0
					1Ø 240				2.45	0.245	0.75	0.075	1.860	0.186	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 CE가 명기된 SR TYPE CONTROLLER MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S8R25GX-ES12, S8R25GX-ES12CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

SPECIFICATION OF SS TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	kg-cm)	(N-m)	kg-cm)	(N-m)	kg-cm)	(N-m)	(μF)
80	S8R25GA-ES24 S8R25GA-ES24(TP) S8R25GA-ES24CE	SSA02-SRSS SSA03-SRSS	4	25	1Ø 110	60	30min.	90-1700	2.45	0.245	0.90	0.090	1.90	0.190	10.0
	S8R25GB-ES24 S8R25GB-ES24(TP) S8R25GB-ES24CE	SSB02-SRSS SSB03-SRSS	4	25	1Ø 220	60	30min.	90-1700	2.45	0.245	0.90	0.090	1.90	0.190	2.5
	S8R25GC-ES24 S8R25GC-ES24(TP) S8R25GC-ES24CE	SSC02-SRSS SSC03-SRSS	4	25	1Ø 100	50	30min.	90-1400	2.25	0.225	0.75	0.075	1.75	0.175	10.0
						60		90-1700	2.00	0.200					
	S8R25GD-ES24 S8R25GD-ES24(TP) S8R25GD-ES24CE	SSD02-SRSS SSD03-SRSS	4	25	1Ø 200	50	30min.	90-1400	2.25	0.225	0.75	0.075	1.75	0.175	2.5
						60		90-1700	2.00	0.200					
	S8R25GX-ES24 S8R25GX-ES24CE	SSX02-SRSS SSX03-SRSS	4	25	1Ø 220	50	30min.	90-1400	2.30	0.230	0.75	0.075	1.75	0.175	2.0
					1Ø 240				2.45	0.245	0.75	0.075	1.860	0.186	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S8R25GX-ES24, S8R25GX-ES24CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.

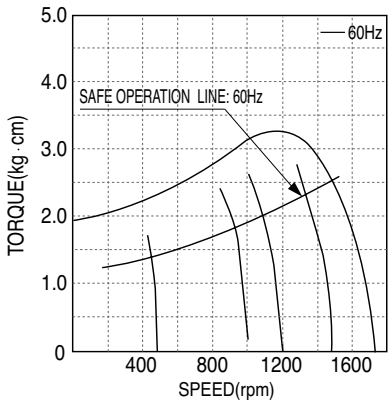
50Hz

GEAR RATIO / MODEL		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
S8KA□B	kg-cm	5.3	6.4	8.9	10.7	13.4	16.0	17.8	22.3	26.7	32.1	32.1	40.2	48.2	57.8	64.2	72.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	N·m	0.519	0.627	0.872	1.049	1.313	1.568	1.744	2.185	2.617	3.146	3.146	3.940	4.724	5.664	6.292	7.115	7.840	7.840	7.840	7.840	7.840	7.840	7.840	7.840

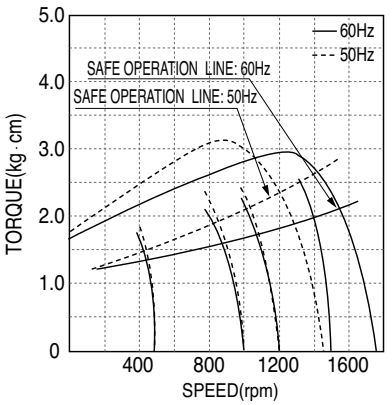
60Hz

GEAR RATIO / MODEL		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
S8KA□B	kg-cm	4.4	5.2	7.3	8.7	10.9	13.1	14.6	18.2	21.9	26.2	26.3	32.9	39.4	47.3	52.6	59.4	71.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	N·m	0.431	0.510	0.715	0.853	1.068	1.284	1.431	1.784	2.146	2.568	2.577	3.224	3.861	4.635	5.155	5.821	6.987	7.840	7.840	7.840	7.840	7.840	7.840	7.840

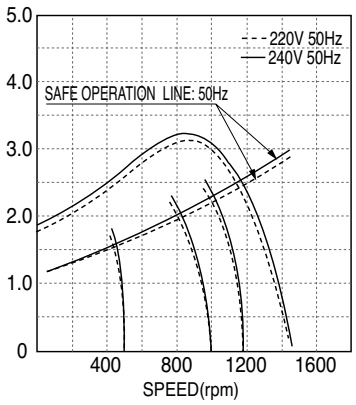
❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다.
감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 80㎏-㎝입니다.
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다.
실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다.



▲ S8R25GA-ES12 S8R25GA-ES24
S8R25GA-ES12(TP) S8R25GA-ES24(TP)
S8R25GA-ES12CE S8R25GA-ES24CE
S8R25GB-ES12 S8R25GB-ES24
S8R25GB-ES12(TP) S8R25GB-ES24(TP)
S8R25GB-ES12CE S8R25GB-ES24CE



▲ S8R25GC-ES12 S8R25GC-ES24
S8R25GC-ES12(TP) S8R25GC-ES24(TP)
S8R25GC-ES12CE S8R25GC-ES24CE
S8R25GD-ES12 S8R25GD-ES24
S8R25GD-ES12(TP) S8R25GD-ES24(TP)
S8R25GD-ES12CE S8R25GD-ES24CE

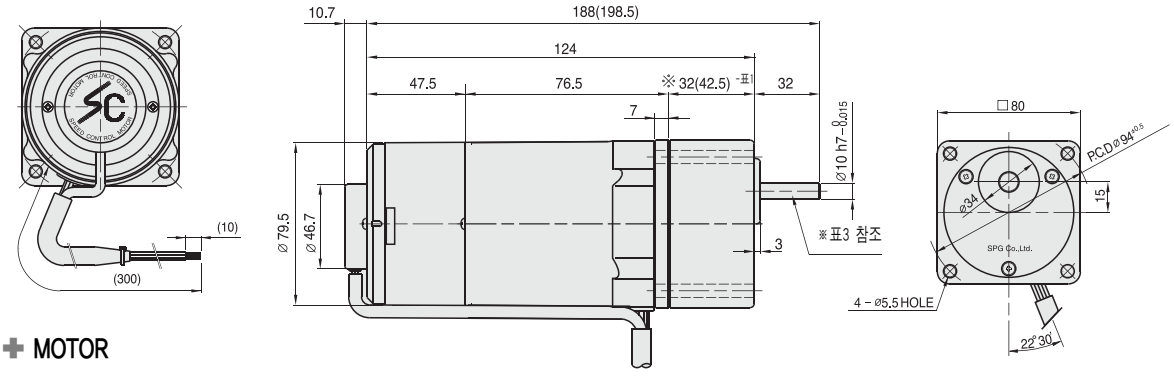


▲ S8R25GX-ES12 S8R25GX-ES24
S8R25GX-ES12CE S8R25GX-ES24CE

DIMENSIONS

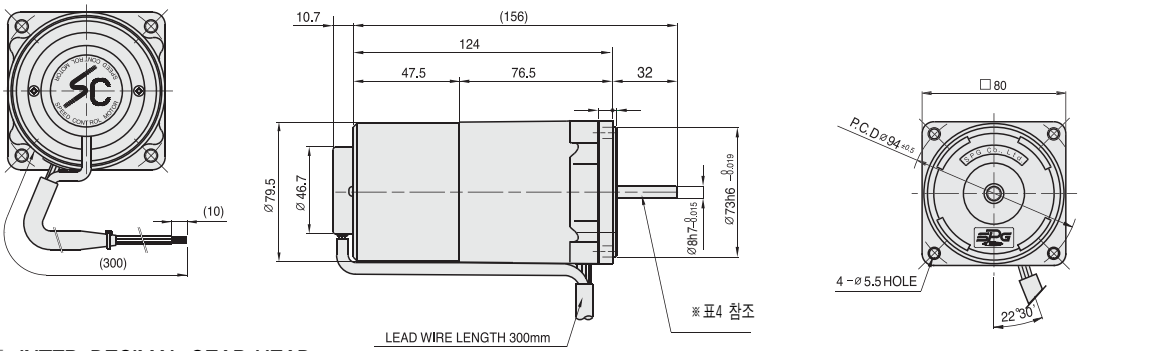
✚ GEARED MOTOR

※MOTOR MODEL : S8R(15,25)G□-ES12, S8R(15,25)G□-ES24
※HEAD MODEL : S8□A3□~S8□A200□



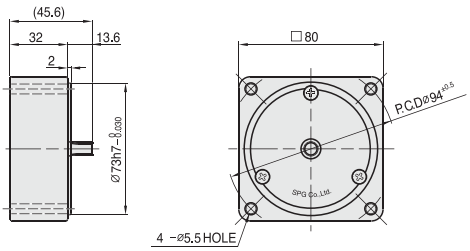
✚ MOTOR

※MOTOR MODEL : S8R(15,25)□□-ES12, S8R(15,25)□□-ES24



✚ INTER-DECIMAL GEAR HEAD

※MODEL : S8GX10B



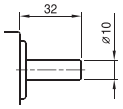
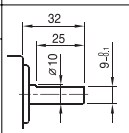
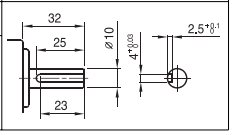
✚ ※32(42.5) - (표1)

GEAR RATIO	SIZE(㎜)
S8□A3□ ~ S8□A18□	32
S8□A20□ ~ S8□A200□	42.5

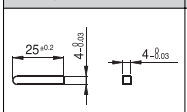
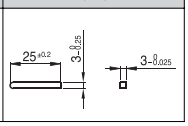
✚ WEIGHT - (표2)

PART		WEIGHT(kg)
15W MOTOR		2.00
25W MOTOR		2.00
DECIMAL GEAR HEAD		0.43
GEAR HEAD	S8□A3□ ~S8□A18□	0.43
	S8□A20□ ~S8□A40□	0.57
	S8□A50□ ~S8□A200□	0.61

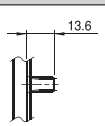
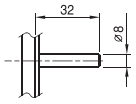
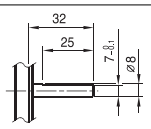
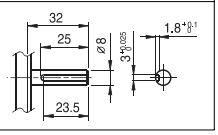
✚ GEAR HEAD 출력축 사양 - (표3)

MODEL	출력축 구분
STRAIGHT TYPE	
S8SA3□ ~S8SA200□	
D-CUT TYPE	
S8DA3□ ~S8DA200□	
KEY TYPE	
S8KA3□ ~S8KA200□	

✚ KEY SPEC

GEAR HEAD	MOTOR
	

✚ MOTOR 출력축 사양 - (표4)

MODEL	출력축 구분
GEAR TYPE S8R15G□-ES12 S8R25G□-ES12 S8R15G□-ES24 S8R25G□-ES24	
STRAIGHT TYPE S8R15S□-ES12 S8R25S□-ES12 S8R15S□-ES24 S8R25S□-ES24	
D-CUT TYPE S8R15D□-ES12 S8R25D□-ES12 S8R15D□-ES24 S8R25D□-ES24	
KEY TYPE S8R15K□-ES12 S8R15K□-ES24 S8R15K□-ES12 S8R15K□-ES24	

40W

E · S MOTOR □90㎜ LEAD WIRE TYPE

SPECIFICATION SR TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
90	S9R40GA( )-ES12 S9R40GA( )-ES12(TP) S9R40GA( )-ES12CE	SRA02 SRA02CE	4	40	1Ø 110	60	30min.	90-1700	3.00	0.300	1.20	0.120	3.75	0.375	15.0
	S9R40GB( )-ES12 S9R40GB( )-ES12(TP) S9R40GB( )-ES12CE	SRB02 SRB02CE	4	40	1Ø 220	60	30min.	90-1700	3.00	0.300	1.20	0.120	3.75	0.375	4.0
	S9R40GC( )-ES12 S9R40GC( )-ES12(TP) S9R40GC( )-ES12CE	SRC02 SRC02CE	4	40	1Ø 100	50	30min.	90-1400	3.10	0.310	1.00	0.100	3.20	0.320	15.0
						60		90-1700	2.20	0.220					
	S9R40GD( )-ES12 S9R40GD( )-ES12(TP) S9R40GD( )-ES12CE	SRD02 SRD02CE	4	40	1Ø 200	50	30min.	90-1400	3.10	0.310	1.00	0.100	3.20	0.320	4.0
						60		90-1700	2.20	0.220					
	S9R40GX( )-ES12 S9R40GX( )-ES12CE	SRX02 SRX02CE	4	40	1Ø 220	50	30min.	90-1400	2.50	0.250	1.20	0.120	3.20	0.320	3.0
					1Ø 240				3.10	0.310	1.20	0.120	3.50	0.321	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 CE가 명기된 SR TYPE CONTROLLER MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S9R40GX-ES12, S9R40GX-ES12CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ ()는 L, H Type을 표시합니다. L은 GEAR HEAD의 L과, H는 GRAR HEAD의 H와 사용하여 주십시오.

SPECIFICATION OF SS TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
90	S9R40GA( )-ES24 S9R40GA( )-ES24(TP) S9R40GA( )-ES24CE	SSA02-SRSS SSA03-SRSS	4	40	1Ø 110	60	30min.	90-1700	3.00	0.300	1.20	0.120	3.75	0.375	15.0
	S9R40GB( )-ES24 S9R40GB( )-ES24(TP) S9R40GB( )-ES24CE	SSB02-SRSS SSB03-SRSS	4	40	1Ø 220	60	30min.	90-1700	3.00	0.300	1.20	0.120	3.75	0.375	4.0
	S9R40GC( )-ES24 S9R40GC( )-ES24(TP) S9R40GC( )-ES24CE	SSC02-SRSS SSC03-SRSS	4	40	1Ø 100	50	30min.	90-1400	3.10	0.310	1.00	0.100	3.20	0.320	15.0
						60		90-1700	2.20	0.220					
	S9R40GD( )-ES24 S9R40GD( )-ES24(TP) S9R40GD( )-ES24CE	SSD02-SRSS SSD03-SRSS	4	40	1Ø 200	50	30min.	90-1400	3.10	0.310	1.00	0.100	3.20	0.320	4.0
						60		90-1700	2.20	0.220					
	S9R40GX( )-ES24 S9R40GX( )-ES24CE	SSX02-SRSS SSX03-SRSS	4	40	1Ø 220	50	30min.	90-1400	2.50	0.250	1.20	0.120	3.20	0.320	3.0
					1Ø 240				3.10	0.310	1.20	0.120	3.50	0.321	

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오.
❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S9R40GX-ES24, S9R40GX-ES24CE는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ ( )는 L, H Type을 표시합니다. L은 GEAR HEAD의 L과, H는 GRAR HEAD의 H와 사용하여 주십시오.

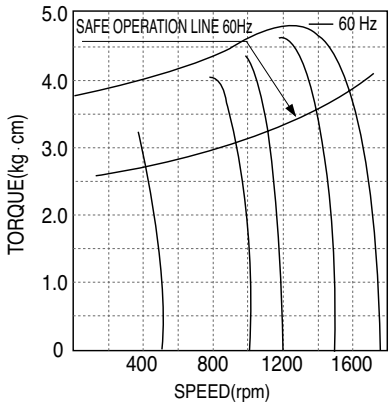
50Hz

GEAR RATIO / MODEL		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
S9KB□B( )	kg-cm	8.3	9.9	13.8	16.5	20.7	24.8	27.5	34.4	41.3	49.6	49.6	62.1	74.5	89.4	99.3	100	100	100	100	100	100	100	100	100
	N·m	0.813	0.970	1.352	1.617	2.029	2.430	2.695	3.371	4.047	4.861	4.861	6.086	7.301	8.761	9.731	9.800	9.800	9.800	9.800	9.800	9.800	9.800	9.800	9.800

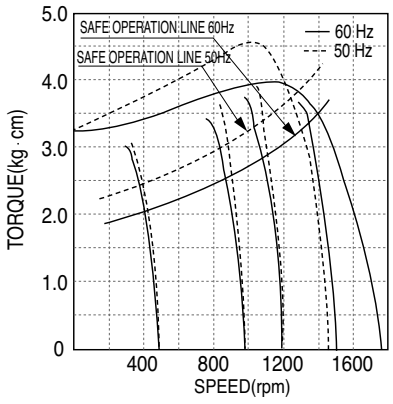
60Hz

GEAR RATIO / MODEL		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
S9KB□B( )	kg-cm	6.8	8.2	11.3	13.6	17.0	20.4	22.7	28.4	34.0	40.8	40.9	51.1	61.3	73.6	81.8	100	100	100	100	100	100	100	100	9.800
	N·m	0.666	0.804	1.107	1.333	1.666	1.999	2.225	2.783	3.332	3.998	4.008	5.008	6.007	7.213	8.016	9.800	9.800	9.800	9.800	9.800	9.800	9.800	9.800	100

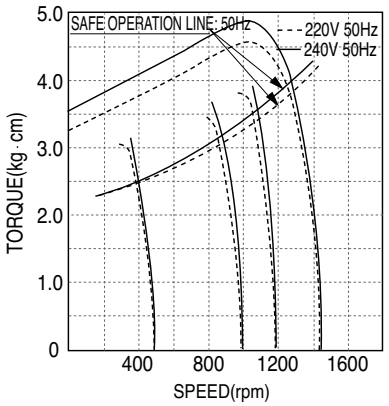
❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다.
감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 100㎏-㎝입니다.
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다.
실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ ( )는 L, H Type을 표시합니다. L은 MOTOR의 L과, H는 MOTOR의 H와 사용하여 주십시오.



▲ S9R40GA()-ES12 S9R40GA()-ES24
S9R40GA()-ES12(TP) S9R40GA()-ES24(TP)
S9R40GA()-ES12CE S9R40GA()-ES24CE
S9R40GB()-ES12 S9R40GB()-ES24
S9R40GB()-ES12(TP) S9R40GB()-ES24(TP)
S9R40GB()-ES12CE S9R40GB()-ES24CE



▲ S9R40GC()-ES12 S9R40GC()-ES24
S9R40GC()-ES12(TP) S9R40GC()-ES24(TP)
S9R40GC()-ES12CE S9R40GC()-ES24CE
S9R40GD()-ES12 S9R40GD()-ES24
S9R40GD()-ES12(TP) S9R40GD()-ES24(TP)
S9R40GD()-ES12CE S9R40GD()-ES24CE

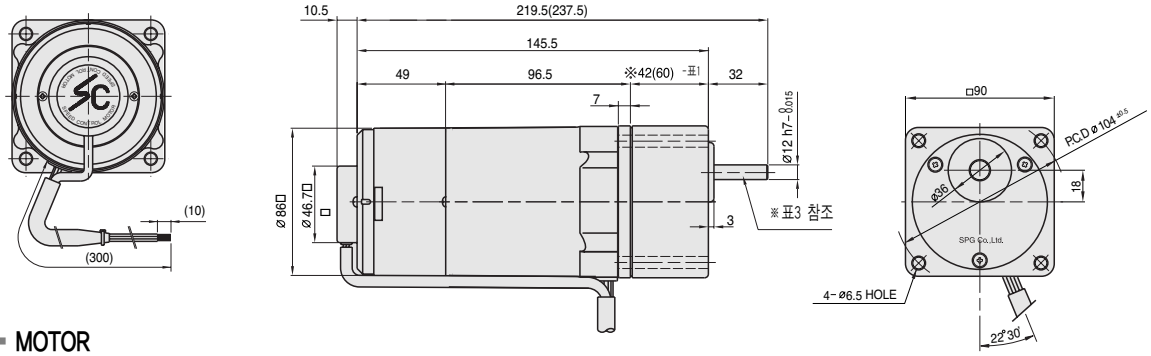


▲ S9R40GX()-ES12 S9R40GX()-ES24
S9R40GX()-ES12CE S9R40GX()-ES24CE

DIMENSIONS

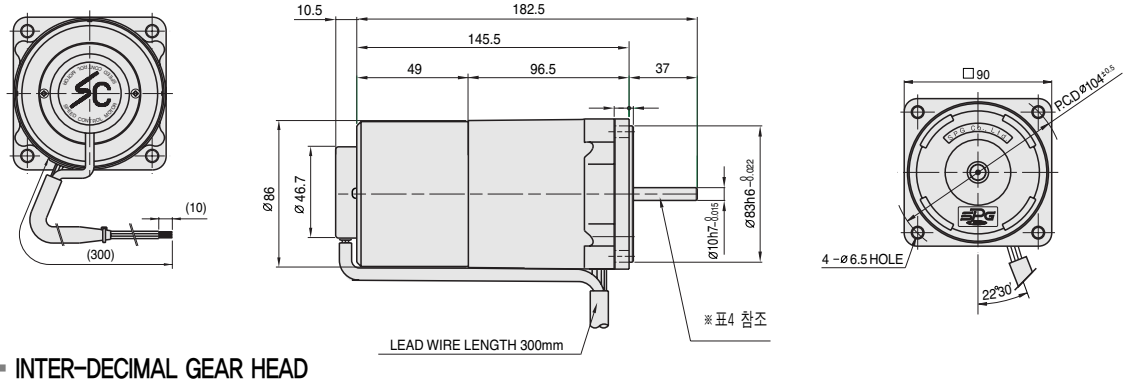
✚ GEARED MOTOR

※MOTOR MODEL : S9R40G□□-ES12, S9R40G□□-ES24
※HEAD MODEL : S9□B3□~S9□B200□□



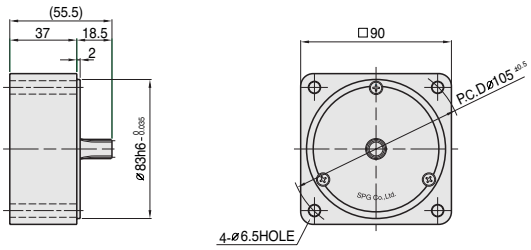
✚ MOTOR

※MOTOR MODEL : S9R40□□□-ES12, S9R40□□□-ES24

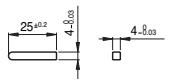
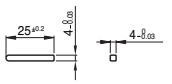


✚ INTER-DECIMAL GEAR HEAD

※MODEL : S9GX10B(H,L)



✚ KEY SPEC

GEAR HEAD	MOTOR
	

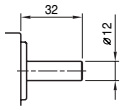
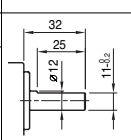
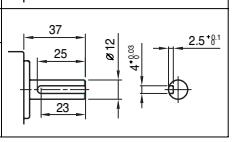
✚ ※42(60) - (표1)

GEAR RATIO	SIZE(mm)
S9□B3□□ ~ S9□B18□□	42
S9□B20□□ ~ S9□B200□□	60

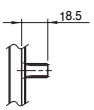
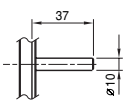
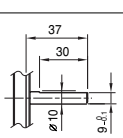
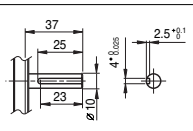
✚ WEIGHT - (표2)

PART		WEIGHT(kg)
MOTOR		2.87
DECIMAL GEAR HEAD		0.60
GEAR HEAD	S9□B3□□ ~S9□B18□□	0.73
	S9□B20□□ ~S9□B40□□	1.03
	S9□B50□□ ~S9□B200□□	1.13

✚ GEAR HEAD 출력축 사양 - (표3)

MODEL	출력축 구분
STRAIGHT TYPE S9SB3□□ ~S9SB200□□	
D-CUT TYPE S9DB3□□ ~S9DB200□□	
KEY TYPE S9KB3□□ ~S9KB200□□	

✚ MOTOR 출력축 사양 - (표4)

MODEL	출력축 구분
GEAR TYPE S9R40G□-ES12 S9R40G□-ES24	
STRAIGHT TYPE S9R40S□-ES12 S9R40S□-ES24	
D-CUT TYPE S9R40D□-ES12 S9R40D□-ES24	
KEY TYPE S9R40K□-ES12 S9R40K□-ES24	

60W

E · S MOTOR □90㎜ LEAD WIRE TYPE

SPECIFICATION OF SR TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
90	S9R60GA( )-ES12 S9R60GA( )-ES12CE	SRA02 SRA02CE	4	60	1Ø 110	60	30min.	90-1700	5.50	0.550	3.92	0.392	6.10	0.610	25.0
	S9R60GB( )-ES12 S9R60GB( )-ES12CE	SRB02 SRB02CE	4	60	1Ø 220	60	30min.	90-1700	5.50	0.550	3.92	0.392	6.10	0.610	6.0
	S9R60GC( )-ES12 S9R60GC( )-ES12CE	SRC02 SRC02CE	4	60	1Ø 100	50	30min.	90-1400	5.11	0.511	3.61	0.361	6.04	0.604	25.0
						60		90-1700	4.42	0.442					
	S9R60GD( )-ES12 S9R60GD( )-ES12CE	SRD02 SRD02CE	4	60	1Ø 200	50	30min.	90-1400	5.11	0.511	3.61	0.361	6.04	0.604	6.0
						60		90-1700	4.42	0.442					
	S9R60GX( )-ES12 S9R60GX( )-ES12CE	SRX02 SRX02CE	4	60	1Ø 220	50	30min.	90-1400	5.25	0.525	3.01	0.301	6.02	0.602	5.0
					1Ø 240				5.90	0.590	3.25	0.325	6.32	0.632	

❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S9R60GX-ES12는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.

❖ ( )는 L, H Type을 표시합니다. L은 GEAR HEAD의 L과, H는 GEAR HEAD의 H와 사용하여 주십시오.

50Hz

GEAR RATIO / MODEL	rpm	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
		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□B( )	kg-cm	12.2	14.6	20.3	24.3	30.4	36.5	40.5	45.6	54.8	65.7	73.0	82.5	99.0	119	132	165	198	200	200	200	200	200	200	200
S9KC□B( )-S	N·m	1.196	1.431	1.989	2.381	2.989	3.577	3.969	4.469	5.370	6.439	7.154	8.085	9.702	11.66	12.94	16.17	19.40	19.60	19.60	19.60	19.60	19.60	19.60	19.60

60Hz

GEAR RATIO / MODEL	rpm	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
		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□B( )	kg-cm	9.72	11.7	16.2	19.4	24.3	29.2	32.4	36.5	43.8	52.6	58.4	66.0	79.2	95.0	106	132	158	177	200	200	200	200	200	200
S9KC□B( )-S	N·m	0.953	1.147	1.588	1.901	2.381	2.862	3.175	3.577	4.292	5.155	5.723	6.468	7.762	9.310	10.39	12.94	15.48	17.35	19.60	19.60	19.60	19.60	19.60	19.60

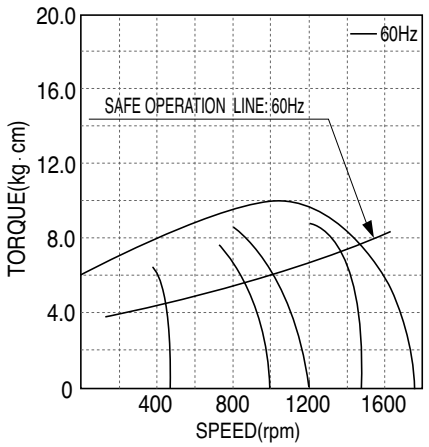
❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.

❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다. 감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 200kg-cm입니다.

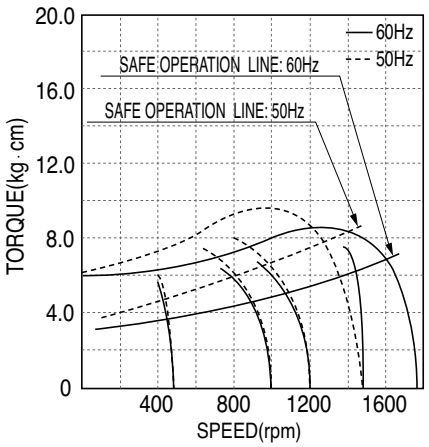
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.

❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다. 실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.

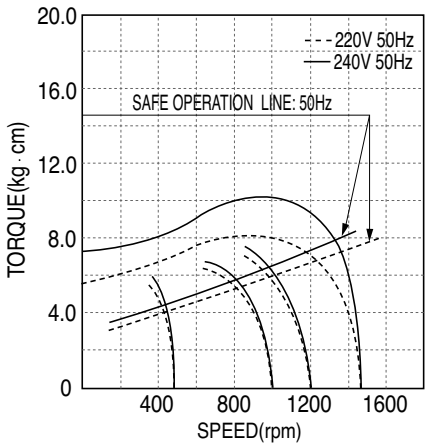
❖ ( )는 L, H Type을 표시합니다. L은 MOTOR의 L과, H는 MOTOR의 H와 사용하여 주십시오.



▲ S9R60GA()-ES12 S9R60GB()-ES12
S9R60GA()-ES12(TP) S9R60GB()-ES12(TP)



▲ S9R60GC()-ES12 S9R60GD()-ES12
S9R60GC()-ES12(TP) S9R60GD()-ES12(TP)

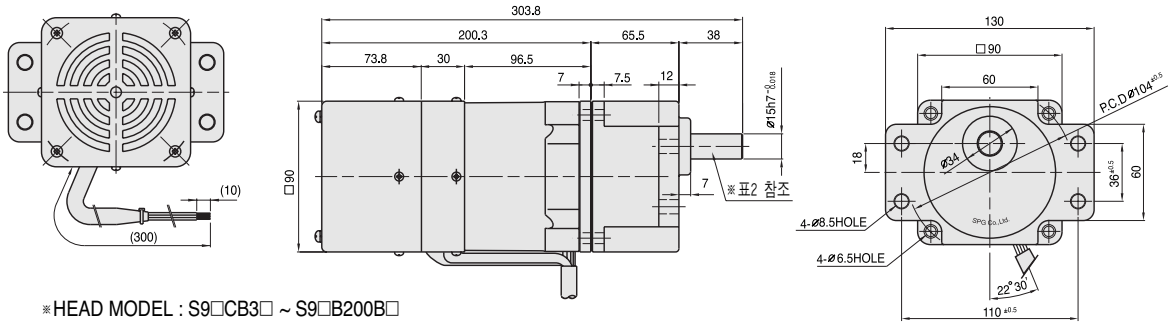


▲ S9R60GX()-ES12

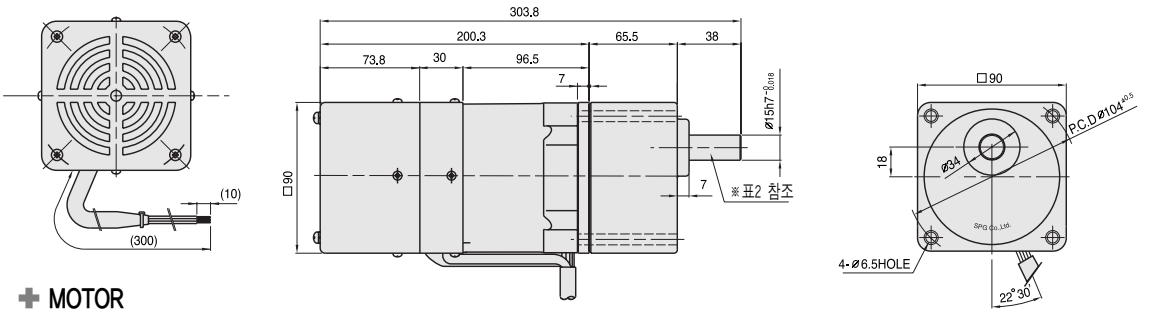
DIMENSIONS

GEARED MOTOR

※MOTOR MODEL : S9R60G□□-ES12
※HEAD MODEL : S9□C3B□~S9□C200B□-S

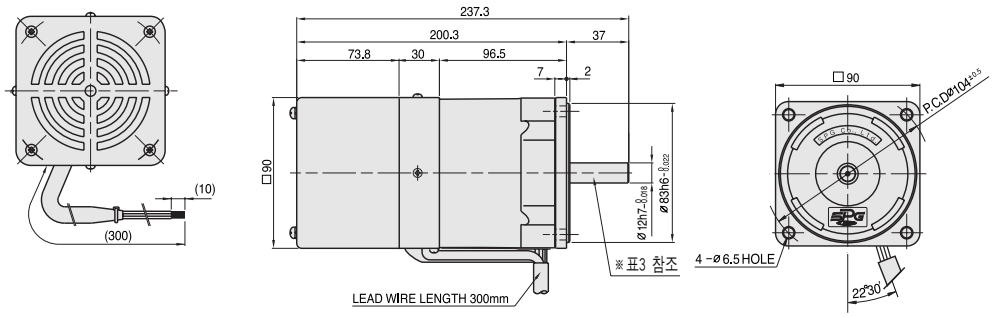


※HEAD MODEL : S9□CB3□ ~ S9□B200B□



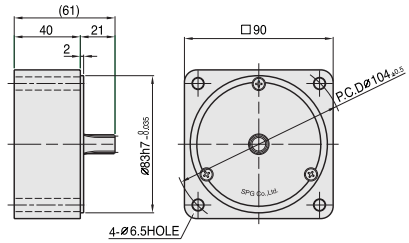
MOTOR

※MOTOR MODEL : S9R60□□□-ES12



INTER-DECIMAL GEAR HEAD

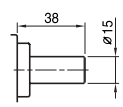
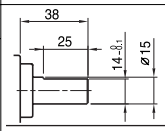
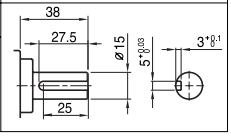
※MODEL : S9GX10B(H,L)



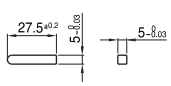
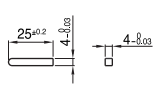
WEIGHT - (표1)

PART		WEIGHT(kg)
MOTOR		3.45
DECIMAL GEAR HEAD		0.65
GEAR HEAD	S9□C3B□ ~S9□C10B□	1.21
	S9□C12.5B□ ~S9□C20B□	1.30
	S9□C25B□ ~S9□C60B□	1.40
	S9□C75B□ ~S9□C200B□	1.45

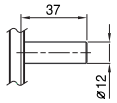
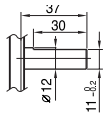
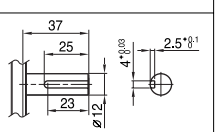
GEAR HEAD 출력축 사양 - (표2)

MODEL	출력축 구분
STRAIGHT TYPE S9SC3B□ ~S9SC200B□	
D-CUT TYPE S9SDC3B□ ~S9SDC200B□	
KEY TYPE S9KC3B□ ~S9KC200B□	

KEY SPEC

GEAR HEAD	MOTOR
	

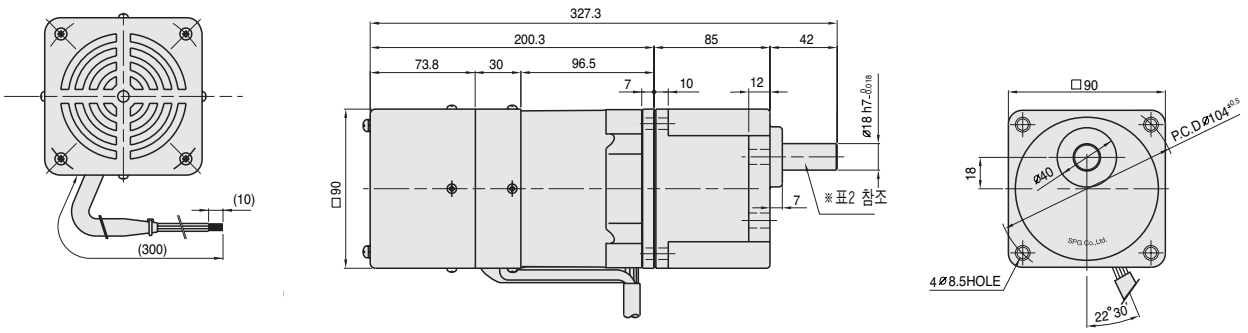
MOTOR 출력축 사양 - (표3)

MODEL	출력축 구분
GEAR TYPE S9R60G□-ES12	
STRAIGHT TYPE S9R60S□-ES12	
D-CUT TYPE S9R60D□-ES12	
KEY TYPE S9R60K□-ES12	

DIMENSIONS

✚ GEARED MOTOR

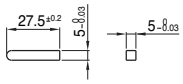
※MOTOR MODEL : S9R60G□H-ES12
※HEAD MODEL : S9□D3B□~S9□D200B



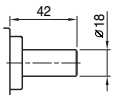
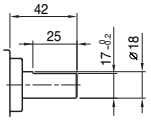
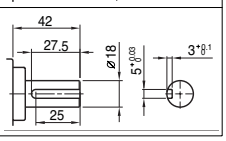
✚ WEIGHT – (표1)

PART		WEIGHT(kg)
MOTOR		3.45
DECIMAL GEAR HEAD		1.65
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 – (표2)

MODEL	출력축 구분
STRAIGHT TYPE S9SD3B□ ~S9SD200B□	
D-CUT TYPE S9DD3B□ ~S9DD200B□	
KEY TYPE S9KD3B□ ~S9KD200B□	

50Hz

GEAR RATIO / MODEL		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	12.2	14.6	20.3	24.3	30.4	36.5	40.5	45.6	54.8	65.7	73.0	82.5	99.0	119	132	165	198	221	266	295	300	300	300	300
	N·m	1.196	1.431	1.989	2.381	2.989	3.577	3.969	4.469	5.370	6.439	7.154	8.085	9.702	11.66	12.94	16.17	19.40	21.67	26.09	28.93	29.42	29.42	29.42	29.42

60Hz

GEAR RATIO / MODEL		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	9.72	11.7	16.2	19.4	24.3	29.2	32.4	36.5	43.8	52.6	58.4	66.0	79.2	95.0	106	132	158	177	212	236	283	300	300	300
	N·m	0.953	1.147	1.588	1.901	2.381	2.862	3.175	3.577	4.292	5.155	5.723	6.468	7.762	9.310	10.39	12.94	15.48	17.35	20.79	23.14	27.75	29.42	29.42	29.42

❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다.
감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 300㎏-㎝입니다.
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다.
실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ 'H' Type 전용으로 기종명에 표시하지 않습니다. MOTOR의 H와 사용하여 주십시오.

90W

E · S MOTOR □90㎜ LEAD WIRE TYPE

SPECIFICATION OF SR TYPE SPEED CONTROL MOTORS

SIZE mm sq.	Motor Type	Controller Type	Poles	Output	Voltage	Freq.	Duty	Speed Range	Permissible Torque at 1200rpm		Permissible Torque at 90rpm		Starting Torque		Cap.
				(W)	(V)	(Hz)		(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(μF)
90	S9R90GA( )-ES12 S9R90GA( )-ES12(CE)	SRA02 SRA02CE	4	90	1Ø 110	60	30min.	90-1700	8.02	0.802	5.42	0.542	7.65	0.765	30.0
	S9R90GB( )-ES12 S9R90GB( )-ES12(CE)	SRB02 SRB02CE	4	90	1Ø 220	60	30min.	90-1700	8.02	0.802	5.42	0.542	7.65	0.765	8.0
	S9R90GC( )-ES12 S9R90GC( )-ES12(CE)	SRC02 SRC02CE	4	90	1Ø 100	50	30min.	90-1400	7.22	0.722	4.92	0.492	6.90	0.690	30.0
						60		90-1700	6.32	0.632					
	S9R90GD( )-ES12 S9R90GD( )-ES12(CE)	SRD02 SRD02CE	4	90	1Ø 200	50	30min.	90-1400	7.22	0.722	4.92	0.492	6.90	0.690	8.0
						60		90-1700	6.32	0.632					
	S9R90GX( )-ES12 S9R90GX( )-ES12(CE)	SRX02 SRX02CE	4	90	1Ø 220	50	30min.	90-1400	5.98	0.598	3.79	0.379	5.90	0.590	6.0
					1Ø 240				6.35	0.635	4.09	0.409	7.20	0.720	

❖ 기종명 맨 끝자리에 (TP)가 명기된 MOTOR MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
또한 기종명 S9R90GX( )-ES12는 TP가 내장된 THERMALLY PROTECTED TYPE입니다.
❖ ( )는 L, H Type을 표시합니다. L은 GEAR HEAD의 L과, H는 GEAR HEAD의 H와 사용하여 주십시오.

50Hz

GEAR RATIO / MODEL		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□B( )	kg-cm	18.2	21.9	30.4	36.5	45.6	54.7	60.8	68.4	82.1	98.6	110	124	149	178	198	200	200	200	200	200	200	200	200	200
S9KC□B( )-S	N·m	1.784	2.146	2.979	3.577	4.469	5.361	5.958	6.703	8.046	9.663	10.78	12.15	14.60	17.44	19.40	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60

60Hz

GEAR RATIO / MODEL		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□B( )	kg-cm	14.6	17.5	24.3	29.2	36.5	43.7	48.6	54.8	65.7	78.8	87.6	99.0	119	143	158	198	200	200	200	200	200	200	200	200
S9KC□B( )-S	N·m	1.431	1.715	2.381	2.862	3.577	4.675	4.763	5.370	6.439	7.722	8.585	9.702	11.66	14.01	15.48	19.40	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60

❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다.
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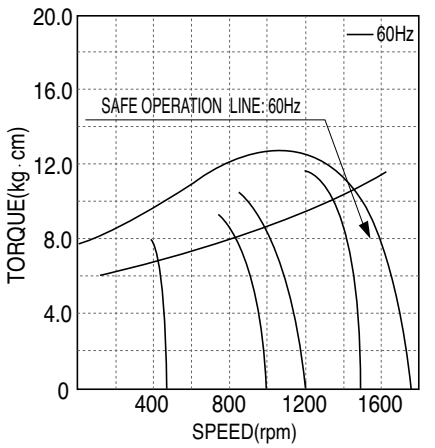
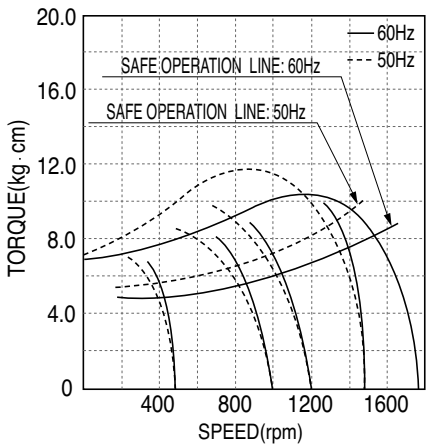
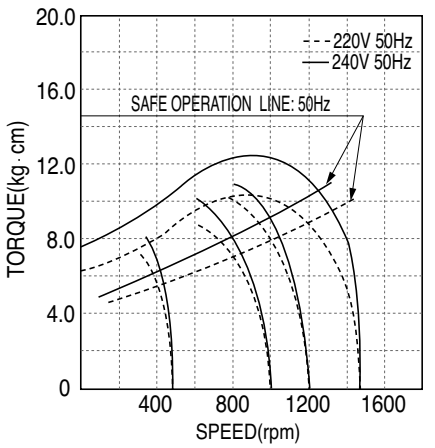
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다. 실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ ( )는 L, H Type을 표시합니다. L은 MOTOR의 L과, H는 MOTOR의 H와 사용하여 주십시오.



▲ S9R90GA()-ES12 S9R90GB()-ES12
S9R90GA()-ES12(TP) S9R90GB()-ES12(TP)



▲ S9R90GC()-ES12 S9R90GD()-ES12
S9R90GC()-ES12(TP) S9R90GD()-ES12(TP)

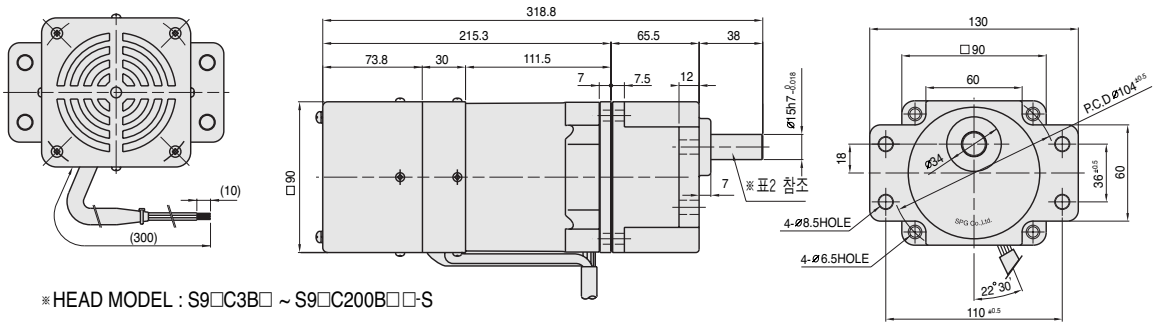


▲ S9R90GX()-ES12

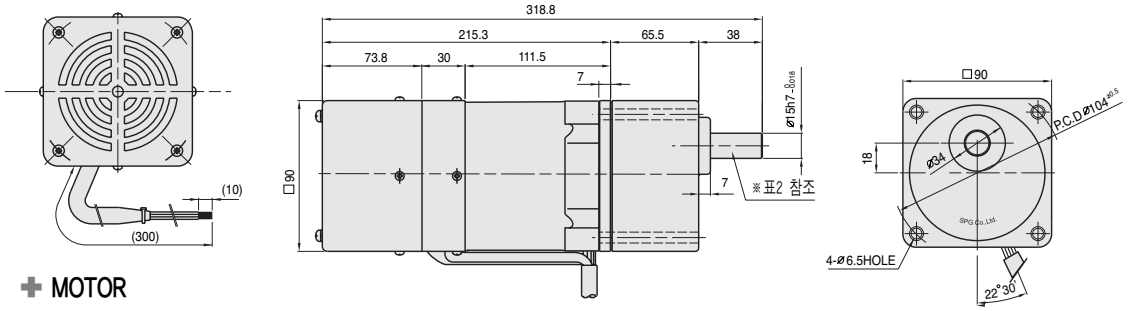
DIMENSIONS

✚ GEARED MOTOR

※MOTOR MODEL : S9R90G□□-ES12
※HEAD MODEL : S9□C3B□-S~S9□C200B□-S

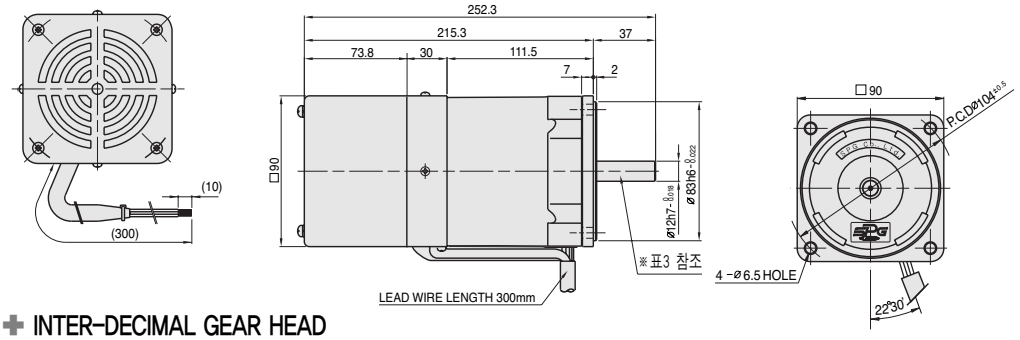


※HEAD MODEL : S9□C3B□ ~ S9□C200B□□-S



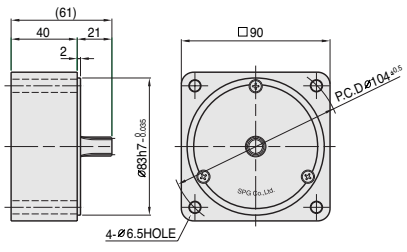
✚ MOTOR

※MOTOR MODEL : S9R90□□□-ES12



✚ INTER-DECIMAL GEAR HEAD

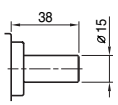
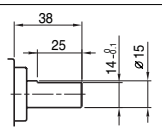
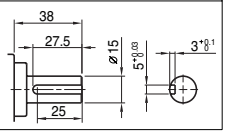
※MODEL : S9GX10B(H,L)



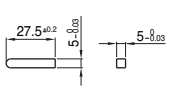
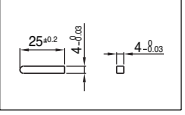
✚ WEIGHT - (표1)

PART		WEIGHT(kg)
MOTOR		3.97
DECIMAL GEAR HEAD		0.65
GEAR HEAD	S9□C3B□ ~S9□C10B□	1.21
	S9□C12.5B□ ~S9□C20B□	1.30
	S9□C25B□ ~S9□C60B□	1.40
	S9□C75B□ ~S9□C200B□	1.45

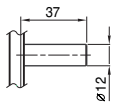
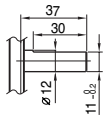
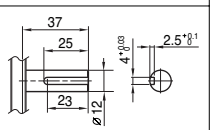
✚ GEAR HEAD 출력축 사양 - (표2)

MODEL	출력축 구분
STRAIGHT TYPE S9SC3B□ ~S9SC200B□	
D-CUT TYPE S9DC3B□ ~S9DC200B□	
KEY TYPE S9KC3B□ ~S9KC200B□	

✚ KEY SPEC

GEAR HEAD	MOTOR
	

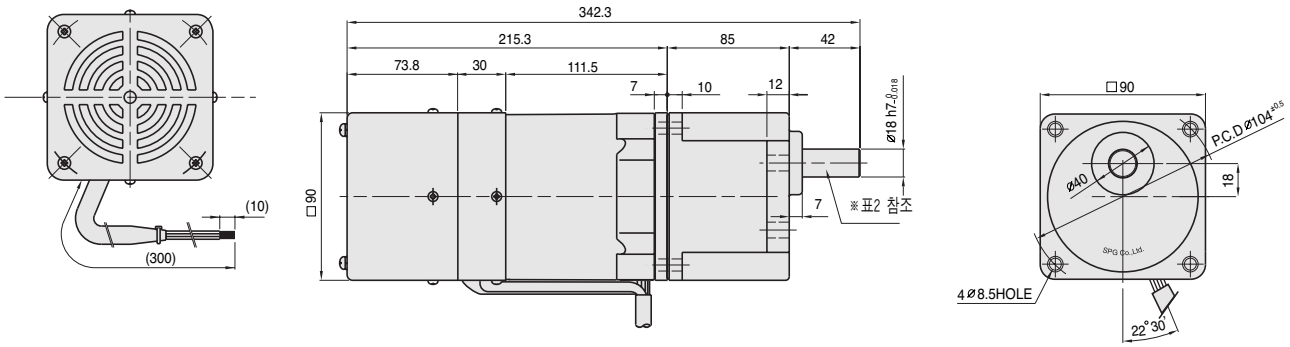
✚ MOTOR 출력축 사양 - (표3)

MODEL	출력축 구분
GEAR TYPE S9R90G□-ES12	
STRAIGHT TYPE S9R90S□-ES12	
D-CUT TYPE S9R90D□-ES12	
KEY TYPE S9R90K□-ES12	

DIMENSIONS

✚ GEARED MOTOR

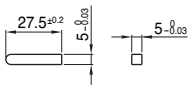
※MOTOR MODEL : S9R90G□H-ES12
※HEAD MODEL : S9□D3B□~S9□D200B



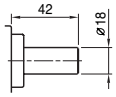
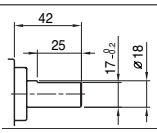
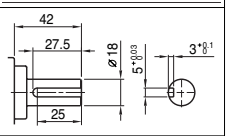
✚ WEIGHT – (표1)

PART		WEIGHT(kg)
MOTOR		3.97
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 – (표2)

MODEL	출력축 구분
STRAIGHT TYPE S9SD3B□ ~S9SD200B□	
D-CUT TYPE S9DD3B□ ~S9DD200B□	
KEY TYPE 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	18.2	21.9	30.4	36.5	45.6	54.7	60.8	68.4	82.1	98.6	110	124	149	178	198	248	297	300	300	300	300	300	300	300
	N·m	1.784	2.146	2.979	3.577	4.469	5.361	5.958	6.703	8.046	9.663	10.78	12.15	14.60	17.44	19.40	24.32	29.13	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	14.6	17.5	24.3	29.2	36.5	43.7	48.6	54.8	65.7	78.8	87.6	99.0	119	143	158	198	238	266	300	300	300	300	300	300
	N·m	1.431	1.715	2.381	2.862	3.577	4.675	4.763	5.370	6.439	7.722	8.585	9.702	11.66	14.01	15.48	19.40	23.34	26.09	29.42	29.42	29.42	29.42	29.42	29.42

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❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다.
감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 300kg-cm입니다.
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다.
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다.
실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다.
❖ 'H' Type 전용으로 기종명에 표시하지 않습니다. MOTOR의 H와 사용하여 주십시오.