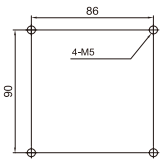
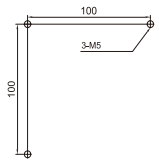
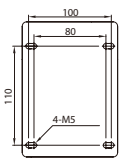
Magnetic Contactor / Starter ◆ AC control




Model				80T	100T	125T	150T
Type	Magnetic Contactor	Nonreversing		S-P80T	S-P100T	S-P125T	S-P150T
		Reversing		S-2×P80T	S-2×P100T	S-2×P125T	S-2×P150T
	Motor Starter	without enclosure	Nonreversing	MSO-P80T	MSO-P100T	MSO-P125T	MSO-P150T
			Reversing	MSO-2×P80T	MSO-2×P100T	MSO-2×P125T	MSO-2×P150T
		with enclosure	Nonreversing	MS-P80T	MS-P100T	MS-P125T	MS-P150T
			Reversing	MS-2×P80T	MS-2×P100T	MS-2×P125T	MS-2×P150T
		with enclosure (push button)	Nonreversing	—	—	—	—
		TOR	Standard	TH-P60 E(TA)	TH-P120 E(TA)	TH-P120 E(TA)	TH-P120 E(TA)
			Differential	TH-P60(TA)PP	TH-P120(TA)PP	TH-P120(TA)PP	TH-P120(TA)PP
Rated Capacity	IEC 60947-4-1 EN 60947-4-1 DIN VDE 0660 AC 3 (kW/HP/A)	3 ø	240V	22/ 30/ 80	30/ 40/ 105	37/ 50/ 135	45/ 60/ 165
			380/415V	45/ 60/ 80	60/ 80/ 105	75/ 100/ 130	90/ 125/ 160
			440V	45/ 60/ 75	60/ 80/ 105	75/ 100/ 130	90/ 125/ 160
			550V	45/ 60/ 60	60/ 80/ 85	75/ 100/ 105	90/ 125/ 130
			660V	45/ 60/ 50	60/ 80/ 70	75/ 100/ 90	90/ 125/ 110
		Continuous Current (Ith) AC1 (A)		100	135	170	200
		Rated insulation voltage (Ui) (V)		AC660	AC660	AC660	AC660
	UL 508 CSA-C22.2 AC3 (HP/A)	1 ø	100~120V	7.5/ 80	—	—	—
			200~240V	15/ 68	—	—	—
		3 ø	200~240V	25/ 68	30/ 80	50/ 130	60/ 154
			380~480V	50/ 65	60/ 77	100/ 124	125/ 156
			550~600V	60/ 62	60/ 62	100/ 99	125/ 125
		Continuous Current (Ith) AC1 (A)		90	100	170	200
		Rated insulation voltage (Ui) (V)		AC600	AC600	AC600	AC600
NEMA				3	3	3	3
Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1 GB14048.4 AC 15	Contact	Standard	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC
			Special	—	—	—	—
			220V	1.6	1.6	3.3	3.3
			380V	0.95	0.95	1.6	1.6
		Continuous Current (Ith) AC1 (A)		16	16	16	16
		Contact class (UL)		A600, Q300	A600, Q300	A600, Q300	A600, Q300
Electrical Life AC3				1.2 Mil.	1.2 Mil.	1.2 Mil.	1.2 Mil.
Mechanical Life				6 Mil.	6 Mil.	6 Mil.	6 Mil.
Operation (Time/Hour)				1200	1200	1200	1200
Magnetic Contactor	Weight (kg)			1.5	2.35	2.7	2.7
	Appearance Dimensions (W×H×D) (mm)			93×142×116	120×116×128	106×152.5×140	106×152.5×140
	Installation dimension (mm)						
Mechanical Interlock				MPU-50	Install by manufacturer	MPU-125	MPU-125

Auxiliary Contact Block
◆ AP Series




Installation		2P FRONT MOUNTED TYPE			4P FRONT MOUNTED TYPE			SIDE MOUNTED TYPE	
Type		AP-20	AP-11	AP-02	AP-40	AP-31	AP-22	APS-11	APL-11
Contact		2NO	1NO 1NC	2NC	4NO	3NO 1NC	2NO 2NC	1NO 1NC	1NO 1NC
Applicable contactor		SR-P40, SR-P50 S-P11~ S-P80T SD-P11~ SD-P21			SR-P40, SR-P50 S-P11~ S-P80T SD-P11~ SD-P21			SR-P40, SR-P50 S-P11~ S-P60T SD-P11~ SD-P21	S-P125, S-P150T S-P200T, S-P220T S-P300T, S-P400T
Rated Capacity AC 15 (A)	220V	1.6							
	380V	0.95							
Operation current	(Ith) (A)	16							

Auxiliary Contact Block
◆ MAP Series

Installation		2P FRONT MOUNTED TYPE			4P FRONT MOUNTED TYPE		
Type		MAP-20	MAP-11	MAP-02	MAP-40	MAP-31	MAP-22
Contact		2NO	1NO 1NC	2NC	4NO	3NO 1NC	2NO 2NC
Applicable contactor		S-P06, S-P09.					
Rated Capacity AC 15 (A)	220V	3.3					
	380V	1.9					
Continuous Current	(Ith) (A)	10					

Timer

Type		PTR-30	PTR-180
Contact		1NO 1NC	1NO 1NC
Adjustable time (Sec)		0~30	0~180
Applicable contactor		SR-P40, SR-P50, S-P11~ S-P60T, SD-P11~ SD-P21.	
Rated Capacity AC 15 (A)	220V	1.6	
	380V	0.95	
Continuous Current	(Ith) (A)	16	

Varistors: Anti-surge interference

Type	BMSACW220V	BMSACW380V
Applicable contactor	SR-P40, SR-P50, S-P11~ S-P60T.	

Coil Characteristics

Type / Characteristics		S-P06 S-P09	S-P11 S-P15	S-P12	S-P16 S-P21 S-P25 S-P30T	S-P35T S-P40T	S-P50T S-P60T S-P80T	S-P100T	S-P125T S-P150T	S-P200T S-P220T	S-P300T S-P400T	M-600C
Coil Capacity (VA)	Impulse	25	55	55	55	72	250	319	370	440	700	4840
	Operation	5	11	11	11	12	28	36	42	50	50	242
Power Consumption (W)		1.6	2.5	2.5	2.5	3	7	11	10	12	7	80
Operation Vot. (Ue)	On	55~70%	55~68%	55~68%	59~70%	60~75%	63~75%	65~75%	75~80%	75~80%	65~80%	72~79%
	Off	35~50%	34~48%	34~48%	36~52%	40~57%	40~57%	40~55%	40~55%	40~60%	20~50%	59~66%
Close Time (ms)	Aux. OFF	5-12	5-12	4-11	6-14	6-13	6-13	18-28	9-20	10-19	22-37	42-71
	Aux. ON	6-15	10-18	10-18	10-18	12-20	12-20	22-32	15-24	17-25	25-40	49-78
	Contact ON	6-15	10-18	10-18	10-18	12-20	12-20	22-32	10-20	12-27	30-45	51-80
Open Time (ms)	Aux. OFF	6-15	12-20	9-18	9-19	10-17	10-17	50-100	9-18	10-20	40-60	61-97
	Aux. ON	5-12	8-15	4-13	6-14	5-12	5-12	48-98	7-15	7-18	31-51	58-94
	Contact ON	5-12	8-15	4-13	6-14	5-12	5-12	46-96	7-15	7-20	30-50	57-93

Coil Specification Table

◆ S-P11~S-P25, S-P30T~P220T, SR-P40~P80, SC-P12~P60

Description	AC12V	AC24V	AC48V	AC110V	AC120V	AC220V
Coil rated specifications marking	12V 50Hz 12V 60Hz	24V 50Hz 24V 60Hz	48~50V 50Hz 48~50V 60Hz	100V 50Hz 100~110V 60Hz	110~120V 50Hz 115~120V 60Hz	200~220V 50Hz 220V 60Hz
Description	AC230V	AC240V	AC380V	AC440V	AC480V	AC550V
Coil rated specifications marking	230V 50Hz 230V 60Hz	220~240V 50Hz 240~260V 60Hz	346~380V 50Hz 380V 60Hz	400V 50Hz 400~440V 60Hz	415~440V 50Hz 460~480V 60Hz	500V 50Hz 500~550V 60Hz

◆ S-P300T~P400T

Description	AC48V	AC110V	AC220V	AC380V	AC550V
Coil rated specifications marking	AC 48~50V 50/60Hz DC 48V	AC 100-127V 50/60 Hz DC 100-127V	AC 200~250V 50/60Hz DC 200~250V	AC 265~450V 50/60Hz	AC 440~575V 50/60Hz

◆ M-600C

Description	AC110V	AC120V	AC220V	AC230V	AC260V
Coil rated specifications marking	100V 50Hz 100~110V 60Hz	110~120V 50Hz 115~120V 60Hz	208~220V 50Hz 220V 60Hz	230~240V 50Hz 230~240V 60Hz	240~260V 50Hz 260~280V 60Hz
Description	AC380V	AC440V	AC480V	AC550V	
Coil rated specifications marking	346~380V 50Hz 380V 60Hz	380~415V 50Hz 400~440V 60Hz	415~440V 50Hz 460~480V 60Hz	500V 50Hz 500~550V 60Hz	

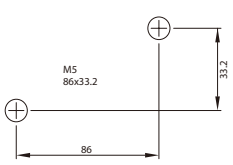
Type		60		120	
Standard	Contactor Assembled Type	TH-P60E	TH-P60ETA	TH-P120E	TH-P120ETA
	Independently Installed Type	—	—	—	—
With phase failure protection	Contactor Assembled Type	TH-P60PP	TH-P60TAPP	TH-P120PP	TH-P120TAPP
	Independently Installed Type	—	—	—	—
Reset Mode		Manual / Automatic		Manual / Automatic	
Magnetic Contactor		S-P50T, S-P60T, S-P80T.	S-P60T, S-P80T.	S-P100T, S-P125T, S-P150T.	

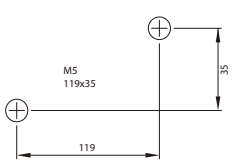
TOR Adjustment Range (A)

Rating (A)	Range (A)	Rating (A)	Range (A)	Rating (A)	Range (A)	Rating (A)	Range (A)
11	9~13	67	54~80	40	32~48	105	80~130
15	12~18	80	60~100	54	43~65	130	100~160
21	17~24			67	54~80	160	120~200
28	22~34			80	60~100		
33	28~38						
40	32~48						
54	43~65						

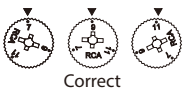
Auxiliary Contact	1NO 1NC		1NO 1NC	
Weight	0.28/ 0.30	0.34/ 0.36	0.55	0.76
Dimensions (mm) (W×H×D)	TH-P60(PP): 98×50.5×78	TH-P60TA(PP): 64.5×65.5×80	TH-P120(PP): 133×54×105	TH-P120TA(PP): 133×85.5×105

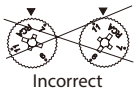
Installation Dimensions (mm)





Note. 1. The purpose of using TOR is protecting load tripping. For protecting circuit, please choose circuit breaker.
2. When adjusting the rated current; please refer to the TOR range table above. Do not exceed its range.
3. (E): 3 Elements


Correct


Incorrect

Selection Table ◆ Direct On-Line Starter

Motor rated capacity kW (HP)		3 ø 200V~220V		
		Heating element rating (A)		Selection of the contactor
0.016	(1/47)	0.13A	0.1~0.16A	S-P06; S-P09
0.025	(1/30)	0.2A	0.16~0.24A	S-P06; S-P09
0.04	(1/19)	0.32A	0.24~0.4A	S-P06; S-P09
0.09	(1/8)	0.5A	0.4~0.6A	S-P06; S-P09
0.12	(1/6)	0.8A	0.6~1.0A	S-P06; S-P09
0.25	(1/3)	1.3A	1.0~1.6A	S-P06; S-P09
0.37	(1/2)	2.0A	1.6~2.4A	S-P06; S-P09
0.75	(1)	3.2A	2.4~4.0A	S-P06; S-P09
1.1	(1 1/2)	5A	4.0~6.0A	S-P09
1.5	(2)	7.5A	6.0~9.0A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.03	(1/25)	0.25A	0.19~0.31A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.05	(1/15)	0.4A	0.3~0.5A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.1	(1/8)	0.6A	0.45~0.75A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.15	(1/5)	0.9A	0.7~1.1A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.2	(1/4)	1.2A	0.9~1.5A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.3	(2/5)	1.7A	1.3~2.1A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.4	(1/2)	2.1A	1.6~2.6A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.75	(1)	3.3A	2.5~4.1A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
1.1	(1 1/2)	4.4A	3.4~5.4A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
1.5	(2)	6.5A	5~8A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
2.2	(3)	9A	7~11A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
3	(4)	11A	9~13A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
3.7	(5)	15A	12~18A	S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
5.5	(7 1/2)	21A	17~24A	S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
6.5	(8 1/2)	28A	22~34A	S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
7.5	(10)			S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
9	(12 1/2)	33A	28~38A	S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
11	(15)	40A	32~48A	S-P40T; S-P50T; S-P60T; S-P80T; S-P100T; S-P125T; S-P150T
15	(20)	54A	43~65A	S-P50T; S-P60T; S-P80T; S-P100T; S-P125T; S-P150T
19	(25)	67A	54~80A	S-P60T; S-P80T; S-P100T; S-P125T; S-P150T
22	(30)	80A	60~100A	S-P80T; S-P100T; S-P125T; S-P150T
25	(35)	105A	80~130A	S-P100T; S-P125T; S-P150T; S-P200T; S-P220T
30	(40)			S-P125T; S-P150T; S-P200T; S-P220T; S-P300T; S-P400T
37	(50)	130A	100~160A	S-P125T; S-P150T; S-P200T; S-P220T; S-P300T; S-P400T
45	(60)	160A	120~200A	S-P150T; S-P200T; S-P220T; S-P300T; S-P400T
55	(75)	200A	150~250A	S-P200T; S-P220T; S-P300T; S-P400T
65	(85)			S-P220T; S-P300T; S-P400T; M-600C
75	(100)	260A	200~320A	S-P300T; S-P400T; M-600C
90	(125)	350A	260~440A	S-P300T; S-P400T; M-600C
110	(150)			S-P400T; M-600C
132	(180)	500A	400~600A	M-600C
160	(220)			M-600C

Selection Table ◆ Direct On-Line Starter

Motor rated capacity kW	(HP)	3 ø 380V~440V Heating element rating (A)		Selection of the contactor
0.025	(1/30)	0.13A	0.1~0.16A	S-P06, S-P09
0.04	(1/19)	0.2A	0.16~0.24A	S-P06, S-P09
0.09	(1/8)	0.32A	0.24~0.4A	S-P06, S-P09
0.18	(1/4)	0.5A	0.4~0.6A	S-P06, S-P09
0.25	(1/3)	0.8A	0.6~1.0A	S-P06, S-P09
0.37	(1/2)	1.3A	1.0~1.6A	S-P06, S-P09
0.55	(3/4)	2.0A	1.6~2.4A	S-P06, S-P09
0.75	(1)			S-P06, S-P09
1.1	(1 1/2)	3.2A	2.4~4.0A	S-P06, S-P09
1.5	(2)	5A	4.0~6.0A	S-P06, S-P09
2.2	(3)			S-P06, S-P09
3	(4)	7.5A	6.0~9.0A	S-P09
0.05	(1/15)	0.25A	0.19~0.31A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
0.1	(1/8)	0.4A	0.3~0.5A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
0.2	(1/4)	0.6A	0.45~0.75A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
0.3	(2/5)	0.9A	0.7~1.1A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
0.4	(1/2)	1.2A	0.9~1.5A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
0.75	(1)	1.7A	1.3~2.1A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
1.1	(1 1/2)	2.1A	1.6~2.6A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
1.5	(2)	3.3A	2.5~4.1A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
2.2	(3)	4.4A	3.4~5.4A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
3	(4)	6.5A	5~8A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
3.7	(5)	9A	7~11A	S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
4	(5 1/2)			S-P11, S-P12 / S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T
4.5	(6)	11A	9~13A	S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T / S-P50T / S-P60T / S-P80T
5.5	(7 1/2)			S-P15, S-P16 / S-P21 / S-P25 / S-P30T / S-P35T / S-P40T / S-P50T / S-P60T / S-P80T
7.5	(10)	15A	12~18A	S-P21 / S-P25 / S-P30T / S-P35T / S-P40T / S-P50T / S-P60T / S-P80T
11	(15)	21A	17~24A	S-P21 / S-P25 / S-P30T / S-P35T / S-P40T / S-P50T / S-P60T / S-P80T
12	(16)			S-P25 / S-P30T / S-P35T / S-P40T / S-P50T / S-P60T / S-P80T
15	(20)	28A	22~34A	S-P30T / S-P35T / S-P40T / S-P50T / S-P60T / S-P80T
19	(25)	33A	28~38A	S-P40T / S-P50T / S-P60T / S-P80T
22	(30)	40A	32~48A	S-P40T / S-P50T / S-P60T / S-P80T
25	(35)			S-P50T / S-P60T / S-P80T / S-P100T / S-P125T / S-P150T
30	(40)	54A	43~65A	S-P50T / S-P60T / S-P80T / S-P100T / S-P125T / S-P150T
37	(50)	67A	54~80A	S-P60T / S-P80T / S-P100T / S-P125T / S-P150T
45	(60)			S-P80T / S-P100T / S-P125T / S-P150T
50	(70)	80A	60~100A	S-P80T / S-P100T / S-P125T / S-P150T / S-P200T / S-P220T
60	(80)	105A	80~130A	S-P100T / S-P125T / S-P150T / S-P200T / S-P220T / S-P300T / S-P400T
75	(100)	130A	100~160A	S-P125T / S-P150T / S-P200T / S-P220T / S-P300T / S-P400T
90	(125)	160A	120~200A	S-P150T / S-P200T / S-P220T / S-P300T / S-P400T
110	(150)	200A	150~250A	S-P200T / S-P220T / S-P300T / S-P400T
132	(180)			S-P300T / S-P400T
150	(200)	260A	200~320A	S-P300T / S-P400T / M-600C
160	(220)	350A	260~440A	S-P300T / S-P400T / M-600C
220	(330)			S-P400T / M-600C
250	(350)	500A	400~600A	M-600C
315	(420)			M-600C

Charact-eristics
SP Series
MS Series
Other Series
Coil
TH Series
SD Series
Selec-tion
Others

Selection Table ◆ Direct On-Line Starter

Motor rated capacity kW	(HP)	3 ø 500V~550V Heating element rating (A)		Selection of the contactor
0.06	(1/12)	0.13A	0.1~0.16A	S-P06, S-P09
0.09	(1/8)	0.2A	0.16~0.24A	S-P06, S-P09
0.12	(1/6)	0.32A	0.24~0.4A	S-P06, S-P09
0.18	(1/4)	0.5A	0.4~0.6A	S-P06, S-P09
0.37	(1/2)	0.8A	0.6~1.0A	S-P06, S-P09
0.55	(3/4)	1.3A	1.0~1.6A	S-P06, S-P09
0.75	(1)	2.0A	1.6~2.4A	S-P06, S-P09
1.1	(1 1/2)			S-P06, S-P09
1.5	(2)	3.2A	2.4~4.0A	S-P06, S-P09
2.2	(3)	5A	4.0~6.0A	S-P06, S-P09
3	(4)			S-P06, S-P09
4	(5 1/2)	7.5A	6.0~9.0A	S-P09
0.12	(1/6)	0.25A	0.19~0.31A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.18	(1/4)	0.4A	0.3~0.5A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.25	(1/3)	0.6A	0.45~0.75A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.37	(1/2)	0.9A	0.7~1.1A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.55	(3/4)	1.2A	0.9~1.5A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
0.75	(1)	1.7A	1.3~2.1A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
1.1	(1 1/2)	2.1A	1.6~2.6A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
1.5	(2)	3.3A	2.5~4.1A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
2.2	(3)	4.4A	3.4~5.4A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
4	(5 1/2)	6.5A	5~8A	S-P11, S-P12; S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T
4.5	(6)	9A	7~11A	S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
5.5	(7 1/2)	11A	9~13A	S-P15, S-P16; S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
7.5	(10)			S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
11	(15)	15A	12~18A	S-P21; S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
12	(16)	21A	17~24A	S-P25; S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
15	(20)			S-P30T; S-P35T; S-P40T; S-P50T; S-P60T; S-P80T
19	(25)	28A	22~34A	S-P40T; S-P50T; S-P60T; S-P80T
22	(30)	33A	28~38A	S-P40T; S-P50T; S-P60T; S-P80T; S-P100T; S-P125T; S-P150T
30	(40)	40A	32~48A	S-P50T; S-P60T; S-P80T; S-P100T; S-P125T; S-P150T
37	(50)	54A	43~65A	S-P60T; S-P80T; S-P100T; S-P125T; S-P150T
45	(60)	67A	54~80A	S-P80T; S-P100T; S-P125T; S-P150T
50	(70)			S-P100T; S-P125T; S-P150T; S-P200T; S-P220T
60	(80)	80A	60~100A	S-P100T; S-P125T; S-P150T; S-P200T; S-P220T; S-P300T; S-P400T
75	(100)	105A	80~130A	S-P125T; S-P150T; S-P200T; S-P220T; S-P300T; S-P400T
90	(125)	130A	100~160A	S-P150T; S-P200T; S-P220T; S-P300T; S-P400T
110	(150)	160A	120~200A	S-P200T; S-P220T; S-P300T; S-P400T
132	(180)			S-P220T; S-P300T; S-P400T
150	(200)	200A	150~250A	S-P300T; S-P400T; M-600C
160	(220)	260A	200~320A	S-P300T; S-P400T; M-600C
220	(330)	350A	260~440A	S-P400T; M-600C
315	(420)	500A	400~600A	M-600C

Selection Table ◆ Magnetic contactor selection | Capacitor use

Model	3 Phase Rated Capacity kVAR(A)			
	200~220V	400~440V	500V	600V
S-P11,12	3(8.5)	4(6)	—	—
S-P21	4.5(14)	9(13)	—	—
S-P30T,S-P35T	6(18)	12(18)	—	—
S-P40T	8.5(25)	15(23)	—	—
S-P50T	12(35)	20(30)	—	—
S-P60T	13(40)	24(35)	25(30)	25(25)
S-P80T	15(50)	25(40)	30(35)	30(30)
S-P100T	22(65)	40(60)	45(50)	45(45)
S-P125T	24(72)	46(67)	50(55)	50(50)
S-P150T	25(80)	51(75)	60(70)	60(60)
S-P220T	50(150)	96(140)	110(130)	110(110)
S-P300	65(200)	120(180)	130(150)	130(130)
S-P400	85(250)	170(250)	200(230)	200(200)
S-C600	170(500)	350(500)	350(400)	400(400)

Model	Single Rated Capacity kVAR(A)			
	Single Phase		3 Phase in Series	
	200~220V	400~440V	500V	600V
S-P11,12	1.7(8.5)	2.4(6)	—	—
S-P21	2.8(14)	5(13)	—	—
S-P30T,S-P35T	3.6(18)	7(18)	—	—
S-P40T	5(25)	9(23)	—	—
S-P50T	7(35)	12(30)	—	—
S-P60T	8(40)	14(35)	20(40)	25(40)
S-P80T	10(50)	15(40)	25(50)	30(50)
S-P100T	13(65)	25(60)	30(60)	35(60)
S-P125T	14(72)	27(67)	33(70)	37(70)
S-P150T	15(80)	30(75)	35(80)	40(80)
S-P220T	30(150)	55(140)	75(150)	90(150)
S-P300	40(200)	72(180)	90(180)	100(180)
S-P400	50(250)	100(250)	120(250)	140(250)
S-C600	100(500)	200(500)	250(500)	300(500)

Note:
Single phase: kVAR = 6.3×10-9×(Hz)×(μF)×(V)2
3 phase: √3 x single phase kVAR

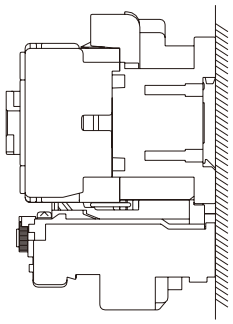
Installation notes

• Operating environment

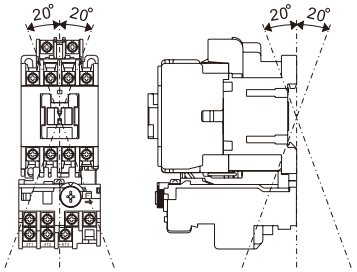
- Altitude below 3000m
- Ambient temperature: -30℃~+70℃ (dew is not allowed)
- Relative humidity: Relative humidity could not exceed 50% when the surrounding temperature is +40oC. For lower temperature, the relative humidity can be higher. The average maximum relative humidity for the month with the highest humidity is 90%, and the average lowest temperature of that month is +25oC. Please consider the possibility of frosting on the surface of the product due to temperature change.
- Withstand vibration 10Hz～55Hz 2G
- Withstand impact 5G
- Storage temperature: -50℃～+85℃(dew is not allowed)
- Please do not install in a place that contains dust, moisture, salt, oil stains, or corrosive or flammable gases.
- After switch installed, please add temporary protection to avoid harmful substances like dust or moisture etc coming into contact with it, if the switch is not to be used for a long period of time.
- Coil operating voltage should be applied within 85~110% of rated voltage. If higher than 110%, the coil life will be reduced, or the coil could burn out if lower than 85%.

• Installation direction

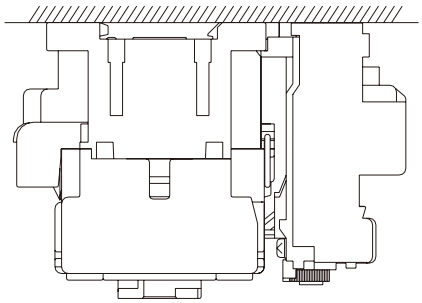
The regular installation direction of the contactor is vertical, but is allowed 20° tilt along all directions. Refer to the figure below.



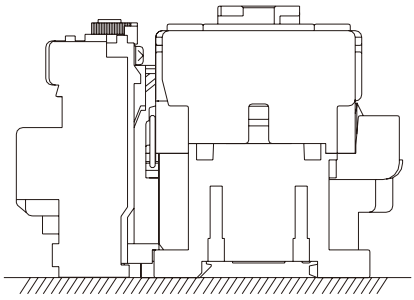
Regular installation ◎



Tilt installation ○



Downward installation X



Upward installation X

Note. If installation dimensional drawing is required, please contact regional distributor or e-mail：b.export@seec.com.tw