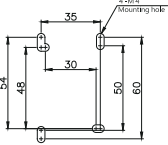
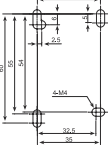
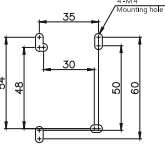
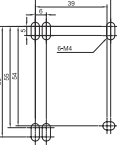


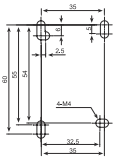
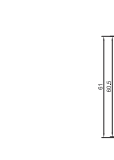
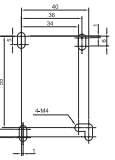
Magnetic Contactor / Motor Starter ◆ AC control

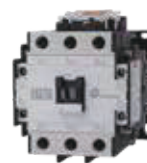
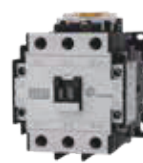


Model				9T	11	12T	12
Type	Magnetic Contactor	Nonreversing		S-P9T	S-P11	S-P12T	S-P12
		Reversing		S-P2XP9T	S-2xP11	S-P2XP12T	S-2xP12
	Motor Starter	without enclosure	Nonreversing	MSO-P9T	MSO-P11	MSO-P12T	MSO-P12
			Reversing	MSO-P2XP9T	MSO-2xP11	MSO-P2XP12T	MSO-2xP12
		with enclosure	Nonreversing	MS-P9T	MS-P11	MS-P12T	MS-P12
			Reversing	MS-P2XP9T	MS-2xP11	MS-P2XP12T	MS-2xP12
		with enclosure (push button)	Nonreversing	MS-P9TPB	MS-P11PB	MS-P12TPB	MS-P12PB
	TOR		Standard	TH-P12E	TH-P12 E	TH-P12E	TH-P12 E
			Differential	TH-P12PP	TH-P12PP	TH-P12PP	TH-P12PP
Rated Capacity	IEC 60947-4-1 EN 60947-4-1 DIN VDE 0660	3 Ø	240V	2.5/3/11	3.5/ 4.5/ 13	3.5/4.5/13	3.5/ 4.5/ 13
			380/415V	4/5.5/9	5.5/ 7.5/ 12	5.5/7.5/12	5.5/ 7.5/ 12
			440V	4/5.5/9	5.5/ 7.5/ 12	5.5/7.5/12	5.5/ 7.5/ 12
			550V	4/5.5/7	5.5/ 7.5/ 9	7.5/10/12	5.5/ 7.5/ 9
			660V	4/5.5/6	5.5/ 7.5/ 7	7.5/10/9	5.5/ 7.5/ 7
		Operation current (Ith) AC1 (A)		25	20	25	20
		Rated insulation voltage (V)		AC690	AC660	AC690	AC660
	UL 508 CSA-C22.2	1 Ø	100~120V	0.5/9.8	0.5/ 9.8	0.75/13.8	0.5/ 9.8
			200~240V	1.5/10	2/ 10	2/12	2/ 12
		3 Ø	200~240V	3/9.6	3/ 9.6	5/15.2	3/ 9.6
			380~480V	5/7.6	7.5/ 11	7.5/11	7.5/ 11
			550~600V	7.5/9	10/ 11	10/11	10/ 11
		Operation current (Ith) AC1 (A)		25	24	25	24
		Rated insulation voltage (V)		AC600	AC600	AC600	AC600
	NEMA				-	0	-
Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1 GB14048.4	Contact	Standard	1No 1NC	1NO	1No 1NC	1NO 1NC
			Special	-	1NC	-	2NC or 2NO
			220V	1.6	1.6	1.6	1.6
			380V	0.95	0.95	0.95	0.95
	AC 15	Operation current (Ith) AC1 (A)		16	16	16	16
		Contact class (UL)		A600 · Q300	A600, P600, Q300	A600 · Q300	A600, P600, Q300
		Electrical Life AC3		1.6 Mil.	1.6 Mil.	1.6 Mil.	1.6 Mil.
Mechanical Life		10 Mil.	10 Mil.	10 Mil.	10 Mil.		
Operation (Time/Hour)		1200	1200	1200	1200		
Magnetic Contactor	Weight (kg)		0.34	0.33	0.34	0.35	
	Appearance Dimensions (W×H×D) (mm)		43×81×86	43×81×83.5	43×81×86	53×81×83.5	
	Installation Dimension (mm)						
	Mechanical Interlock		MPU-11	MPU-11	MPU-11	MPU-21	

Magnetic Contactor / Motor Starter ◆ AC control



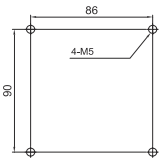
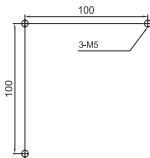
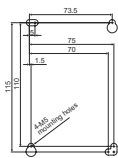
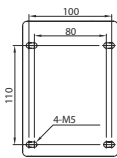
Model				15	16	21 (A)	25	30T	
Type	Magnetic Contactor	Nonreversing		S-P15	S-P16	S-P21 (A)	S-P25	S-P30T	
		Reversing		S-2×P15	S-2×P16	S-2×P21 (A)	S-2×P25	S-2×P30T	
	Motor Starter	without enclosure	Nonreversing	MSO-P15	MSO-P16	MSO-P21 (A)	MSO-P25	MSO-P30T	
			Reversing	MSO-2×P15	MSO-2×P16	MSO-2×P21 (A)	MSO-2×P25	MSO-2×P30T	
		with enclosure	Nonreversing	MS-P15	MS-P16	MS-P21 (A)	MS-P25	MS-P30T	
			Reversing	MS-2×P15	MS-2×P16	MS-2×P21 (A)	MS-2×P25	MS-2×P30T	
		with enclosure (push button)	Nonreversing	MS-P15PB	MS-P16PB	MS-P21PB (A)	MS-P25PB	MS-P30TPB	
	TOR		Standard	TH-P12 E	TH-P20 E	TH-P20 E	TH-P20 E(TA)	TH-P20 E(TA)	
Differential			TH-P12PP	TH-P20PP	TH-P20PP	TH-P20(TA)PP	TH-P20(TA)PP		
Rated Capacity	IEC 60947-4-1 EN 60947-4-1 DIN VDE 0660	3 ∅	240V	4.5/ 6/ 18	4.5/ 6/ 18	5.5/ 7.5/ 24	6.5/ 8.5/ 26	7.5/ 10/ 30	
			380/415V	7.5/ 10/ 18	7.5/ 10/ 18	11/ 15/ 21	12/ 16/ 25	15/ 20/ 30	
			440V	7.5/ 10/ 16	7.5/ 10/ 16	11/ 15/ 21	12/ 16/ 23	15/ 20/ 27	
			550V	7.5/ 10/ 13	7.5/ 10/ 13	11/ 15/ 17	12/ 16/ 20	15/ 20/ 22	
			660V	7.5/ 10/ 9	7.5/ 10/ 9	11/ 15/ 14	12/ 16/ 16	15/ 20/ 18	
	AC 3 (kW/HP/A)		Continuous current (Ith) AC1 (A)	25	30	32	32	50	
			Rated insulation voltage (Ui) (V)	AC660	AC660	AC660	AC660	AC660	
	UL 508 CSA-C22.2 AC3 (HP/A)	1 ∅	100~120V	-	1/ 16	2/ 24	2/ 24	2/ 24	
			200~240V	-	3/ 17	3/ 17	3/ 17	5/ 28	
		3 ∅	200~240V	-	5/ 15.2	7.5/ 22	10/ 28	10/ 28	
			380~480V	-	10/ 14	15/ 21	15/ 21	20/ 27	
			550~600V	-	10/ 11	15/ 17	15/ 17	30/ 32	
				Operation current (Ith) AC1 (A)	-	30	35	40	50
				Rated insulation voltage (Ui) (V)	-	AC600	AC600	AC600	AC600
NEMA			0	0	1	1	2		
Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1 GB14048.4	Contact	Standard	1NO	1NO 1NC	1NO 1NC (2NO 2NC)	1NO 1NC	2NO 2NC	
			Special	1NC	-	-	-	-	
			220V	1.6	1.6	1.6	1.6	1.6	
			380V	0.95	0.95	0.95	0.95	0.95	
	AC 15		Continuous current (Ith) AC1 (A)	16	16	16	16	16	
			Contact class (UL)	-	A600, Q300	A600, Q300	A600, Q300	A600, Q300	
Electrical Life AC3			1.3 Mil.	1.3 Mil.	1.3 Mil.	1.3 Mil.	1.3 Mil.		
Mechanical Life			10 Mil.	10 Mil.	10 Mil.	10 Mil.	10 Mil.		
Operation (Time/Hour)			1200	1200	1200	1200	1200		
Magnetic Contactor	Weight (kg)		0.33	0.37	0.38	0.38	0.55		
	Appearance Dimensions (W×H×D) (mm)		43×81×83.5	53.5×81×83.5	53.5×81×83.5	53.5×81×83.5	73×95×93		
	Installation Dimension (mm)								
Mechanical Interlock			MPU-11	MPU-21	MPU-21	MPU-21	MPU-11		



32T	35T	38T	40T	50T	60T
S-P32T	S-P35T	S-P38T	S-P40T	S-P50T	S-P60T
S-2XP32T	S-2XP35T	S-2XP38T	S-2XP40T	S-2XP50T	S-2XP60T
MSO-P32T	MSO-P35T	MSO-P38T	MSO-P40T	MSO-P50T	MSO-P60T
MSO-2XP32T	MSO-2XP35T	MSO-2XP38T	MSO-2XP40T	MSO-2XP50T	MSO-2XP60T
MS-P32T	MS-P35T	MS-P38T	MS-P40T	MS-P50T	MS-P60T
MS-2XP32T	MS-2XP35T	MS-2XP38T	MS-2XP40T	MS-2XP50T	MS-2XP60T
MS-P32TPB	MS-P35TPB	MS-P38TPB	MS-P40TPB	MS-P50TPB	MS-P60TPB
TH-P20 E(TA)	TH-P20 E(TA)	TH-P20 E(TA)	TH-P20 E(TA)	TH-P60 E	TH-P60 E(TA)
TH-P20(TA)PP	TH-P20(TA)PP	TH-P20(TA)PP	TH-P20(TA)PP	TH-P60PP	TH-P60(TA)PP
7.5/10/32	9/ 12.5/ 35	11/15/39	11/ 15/ 44	15/ 20/ 58	19/ 25/ 65
15/20/32	18.5/ 25/ 35	18.5/25/38	22/ 30/ 40	30/ 40/ 52	37/ 50/ 65
15/20/32	18.5/ 25/ 27	18.5/25/38	22/ 30/ 40	30/ 40/ 52	37/ 50/ 65
15/20/22	18.5/ 25/ 22	18.5/25/29	22/ 30/ 32	30/ 40/ 41	37/ 50/ 52
15/20/18	18.5/ 25/ 18	18.5/25/22	22/ 30/ 26	30/ 40/ 34	37/ 50/ 43
50	50	60	60	80	90
AC660	AC660	AC660	AC660	AC660	AC660
-	2/ 24	-	3/ 34	5/ 56	5/ 56
-	5/ 28	-	7.5/ 40	10/ 50	10/ 50
-	10/ 28	-	15/ 42	20/ 54	20/ 54
-	20/ 27	-	20/ 27	30/ 40	40/ 52
-	30/ 32	-	30/ 32	40/ 41	50/ 52
-	50	-	60	80	90
-	AC600	-	AC600	AC600	AC600
2	2	2	2	2	2
1NO 1NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC
-	-	-	-	-	-
1.6	1.6	1.6	1.6	1.6	1.6
0.95	0.95	0.95	0.95	0.95	0.95
16	16	16	16	16	16
A600, Q300	A600, Q300	A600, Q300	A600, Q300	A600, Q300	A600, Q300
1.3 Mil.	1.3 Mil.	1.3 Mil.	1.3 Mil.	1.3 Mil.	1.3 Mil.
10 Mil.	10 Mil.	10 Mil.	10 Mil.	6 Mil.	6 Mil.
1200	1200	1200	1200	1200	1200
0.38	0.55	0.55	0.55	1.05	1.05
53.5x81x83.5	73x95x93	73x95x93	73x95x93	87.9x115x107	87.9x115x107
MPU-21	MPU-11	MPU-11	MPU-11	MPU-11	MPU-11

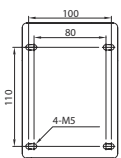
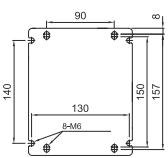
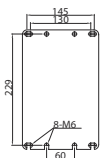
Magnetic Contactor / Motor Starter ◆ AC control



Model				80T	100T	100E	125T	
Type	Magnetic Contactor	Nonreversing		S-P80T	S-P100T	S-P100E	S-P125T	
		Reversing		S-2×P80T	S-2×P100T	S-2×P100E	S-2×P125T	
	Motor Starter	without enclosure	Nonreversing	MSO-P80T	MSO-P100T	MSO-E100	MSO-P125T	
			Reversing	MSO-2×P80T	MSO-2×P100T	MSO-2×E100	MSO-2×P125T	
		with enclosure	Nonreversing	MS-P80T	MS-P100T	MS-E100	MS-P125T	
			Reversing	MS-2×P80T	MS-2×P100T	MS-2×E100	MS-2×P125T	
		with enclosure (push button)	Nonreversing	-	-	MS-E100PB	-	
	TOR		Standard	TH-P60 E(TA)	TH-P120 E(TA)	TH-E100E	TH-P120 E(TA)	
			Differential	TH-P60(TA)PP	TH-P120(TA)PP	TH-E100PP	TH-P120(TA)PP	
Rated Capacity	IEC 60947-4-1 EN 60947-4-1 DIN VDE 0660	3 Ø	240V	22/ 30/ 80	30/ 40/ 105	30/ 40/ 105	37/ 50/ 135	
			380/415V	45/ 60/ 80	60/ 80/ 105	55/ 75/ 100	75/ 100/ 130	
			440V	45/ 60/ 75	60/ 80/ 105	60/ 80/ 100	75/ 100/ 130	
			550V	45/ 60/ 60	60/ 80/ 85	60/ 80/ 85	75/ 100/ 105	
			660V	45/ 60/ 50	60/ 80/ 70	60/ 80/ 70	75/ 100/ 90	
	AC 3 (kW/HP/A)		Continuous current (Ith) AC1 (A)	100	135	135	170	
			Rated insulation voltage (Ui) (V)	AC660	AC660	AC690	AC660	
	UL 508 CSA-C22.2	1 Ø	100~120V	7.5/ 80	-	-	-	
			200~240V	15/ 68	-	-	-	
		3 Ø	200~240V	25/ 68	30/ 80	-	50/ 130	
			380~480V	50/ 65	60/ 77	-	100/ 124	
			550~600V	60/ 62	60/ 62	-	100/ 99	
			AC3 (HP/A)		Continuous current (Ith) AC1 (A)	90	100	-
				Rated insulation voltage (Ui) (V)	AC600	AC600	-	AC600
	NEMA			3	3	-	3	
Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1 GB14048.4	Contact	Standard	2NO 2NC	2NO 2NC	1NO 1NC	2NO 2NC	
			Special	-	-	-	-	
			220V	1.6	1.6	3*	3.3	
			380V	0.95	0.95	1.9	1.6	
	AC 15		Operation current (Ith) AC1 (A)	16	16	10	16	
			Contact class (UL)	A600, Q300	A600, Q300	A600, Q300	A600, Q300	
Electrical Life AC3			1.2 Mil.	1.2 Mil.	1 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	1.34	2.7		
	Appearance Dimensions (W×H×D) (mm)		100×142×116	120×116×128	85×125×127	106×152.5×140		
	Installation Dimension (mm)							
	Mechanical Interlock		MPU-50	Assembled and adjusted by the factory	MEU-11	MPU-125		

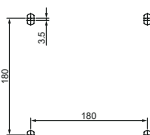
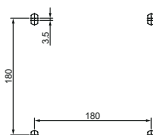
Note: Mark * means the value is @240V



150T	200T	220T	300T	400T
S-P150T	S-P200T	S-P220T	S-P300T	S-P400T
S-2xP150T	S-2xP200T	S-2xP220T	S-2xP300T	S-2xP400T
MSO-P150T	MSO-P200T	MSO-P220T	MSO-P300T	MSO-P400T
MSO-2xP150T	MSO-2xP200T	MSO-2xP220T	MSO-2xP300T	MSO-2xP400T
MS-P150T	MS-P200T	MS-P220T	-	-
MS-2xP150T	MS-2xP200T	MS-2xP220T	-	-
-	-	-	-	-
TH-P120 E(TA)	TH-P220T E	TH-P220T E	TH-P400T E	TH-P400T E
TH-P120(TA)PP	TH-P220TPP	TH-P220TPP	TH-P400TPP	TH-P400TPP
45/ 60/ 165	55/ 75/ 200	65/ 85/ 225	90/ 125/ 300	110/ 150/ 400
90/ 125/ 160	110/ 150/ 200	120/ 160/ 220	160/ 220/ 300	220/ 300/ 400
90/ 125/ 160	110/ 150/ 190	120/ 160/ 220	185/ 250/ 300	250/ 340/ 400
90/ 125/ 130	110/ 150/ 150	132/ 180/ 180	185/ 250/ 263	250/ 340/ 360
90/ 125/ 110	110/ 150/ 125	132/ 180/ 150	200/ 300/ 220	280/ 380/ 305
200	240	260	350	450
AC660	AC660	AC660	AC1000	AC1000
-	-	-	-	-
-	-	-	-	-
60/ 154	75/ 192	75/ 192	100/ 248	125/ 312
125/ 156	150/ 180	150/ 180	200/ 240	250/ 302
125/ 125	150/ 144	150/ 144	200/ 192	300/ 289
200	240	260	350	450
AC600	AC600	AC600	AC1000	AC1000
3	4	4	5	5
2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC
-	-	-	-	-
3.3	3.3	3.3	3.3	3.3
1.6	1.6	1.6	1.6	1.6
16	16	16	10	10
A600, Q300	A600, Q300	A600, Q300	A600, Q300	A600, Q300
1.2 Mil.	1.2 Mil.	1.2 Mil.	1.2 Mil.	1.2 Mil.
6 Mil.	6 Mil.	6 Mil.	6 Mil.	6 Mil.
1200	1200	1200	1200	1200
2.7	4.35	4.35	9.75	9.75
106×152.5×140	138×185×159.5	138×185×159.5	164×246×196.5	164×246×196.5
				
MPU-125	MPU-125	MPU-125	MPU-125	MPU-125

Magnetic Contactor / Motor Starter ◆ AC control



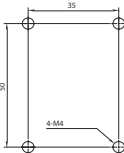
Model				630T	800T	1260T
Type	Magnetic Contactor	Nonreversing		S-P630T	S-P800T	S-P1260T
		Reversing		S-2XP630T	S-2XP800T	S-2XP1260T
	Motor Starter	without enclosure	Nonreversing	-	-	-
			Reversing	-	-	-
		with enclosure	Nonreversing	-	-	-
			Reversing	-	-	-
		with enclosure (push button)	Nonreversing	-	-	-
	TOR		Standard	TH-P600CT(E)	TH-P600CT(E)	-
			Differential	TH-P600CTPP	TH-P600CTPP	-
Rated Capacity	IEC 60947-4-1 EN 60947-4-1 DIN VDE 0660 AC 3 (kW/HP/A)	3 ∅	240V	200 / 270 / 630	250 / 340 / 800	-
			380/415V	335 / 450 / 630	450 / 610 / 800	-
			440V	400 / 545 / 630	450 / 610 / 800	-
			550V	400 / 545 / 552	450 / 610 / 620	-
			660V	450 / 610 / 450	475 / 645 / 475	-
		Continuous current (Ith) AC1 (A)		800	1000	1260
		Rated insulation voltage (Ui) (V)		AC1000	AC1000	AC1000
	UL 508 CSA-C22.2 AC3 (HP/A)	1 ∅	100~120V	-	-	-
			200~240V	-	-	-
		3 ∅	200~240V	-	-	-
			380~480V	-	-	-
			550~600V	-	-	-
		Continuous current (Ith) AC1 (A)		-	-	-
		Rated insulation voltage (Ui) (V)		-	-	-
	NEMA			3	3	4
Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1 GB14048.4 AC 15	Contact	Standard	2NO 2NC*	-	
			Special	-	-	
			220V	-	-	
			380V	-	-	
	Operation current (Ith) AC1 (A)		-	-	-	
	Contact class (UL)		-	-	-	
Electrical Life AC3			500000	500000	-	
Mechanical Life			3000000	3000000	3000000	
Operation (Time/Hour)			-	-	-	
Magnetic Contactor	Weight (kg)		16.4	18.3	18.3	
	Appearance Dimensions (W×H×D) (mm)		304×309×255	338×309×255	338×309×255	
	Installation Dimension (mm)					
Mechanical Interlock			-	-	-	

*Note: S-P630T and S-P800T is equipped with AP-22N (2NO2NC) when ordered, S-P1260T can be purchase separated.

Magnetic Contactor / Motor Starter ◆ AC control

Mini Contactor



Model				06	09	
Type	Magnetic Contactor	Nonreversing		S-P06	S-P09	
		Reversing		S-2×P06	S-2×P09	
	Motor Starter	without enclosure	Nonreversing	MSO-P06	MSO-P09	
			Reversing	-	-	
		with enclosure	Nonreversing	-	-	
			Reversing	-	-	
			with enclosure (push button)	Nonreversing	-	-
	TOR		Standard	-	-	
Differential			TH-P09PP	TH-P09PP		
Rated Capacity	IEC 60947-4-1 EN 60947-4-1 DIN VDE 0660	3 ∅	240V	1.5/ 2/ 7.5	2.2/ 3/ 10.1	
			380/415V	3/ 4/ 6.6	4/ 5.5/ 9	
			440V	3/ 4/ 6.5	4/ 5.5/ 8.5	
			550V	3/ 4/ 5	4/ 5.5/ 6.5	
		660V	3/ 4/ 4	4/ 5.5/ 5		
	AC 3 (kW/HP/A)		Continuous Current (Ith) AC1 (A)	20	20	
			Rated insulation voltage (V)	AC660	AC660	
	UL 508 CSA-C22.2	1 ∅	100~120V	0.25/ 5.8	0.5/ 9.8	
			200~240V	1/ 8	1.5/ 10	
		3 ∅	200~240V	2/ 6.8	3/ 9.6	
			380~480V	3/ 4.8	5/ 7.6	
			550~600V	3/ 3.9	5/ 6.1	
	AC3 (HP/A)		Continuous Current (Ith) AC1 (A)	20	20	
			Rated insulation voltage (V)	AC660	AC660	
NEMA				00	00	
Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1 GB14048.4	Contact	Standard	1NO	1NO	
			Special	1NC	1NC	
			220V	3.3	3.3	
			380V	1.9	1.9	
	AC 15		Continuous Current (Ith) AC1 (A)	10	10	
			Contact class (UL)	A600	A600	
Electrical Life AC3			1.6 Mil.	1.6 Mil.		
Mechanical Life			10 Mil.	10 Mil.		
Operation (Time/Hour)			1200	1200		
Magnetic Contactor	Weight (kg)		0.15	0.15		
	Appearance Dimensions (W×H×D) (mm)		46×58×51	46×58×51		
	Installation dimension (mm)					
Mechanical Interlock				-	-	

Thermal Overload Relay

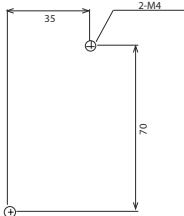
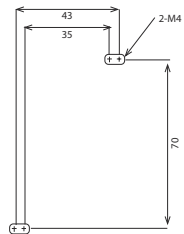


Type		09
Standard	Contact Assembled Type	-
	Independently Installed Type	-
With phase failure protection	Contact Assembled Type	TH-P09PP
	Independently Installed Type	-
Reset Mode		Manual / Automatic
Magnetic Contactor		S-P06, S-P09.
TOR Adjustment Range (A)		Rating (A) Range (A)
		0.13 0.1~0.16
		0.20 0.16~0.24
		0.32 0.24~0.4
		0.5 0.4~0.6
		0.8 0.6~1
		1.3 1~1.6
		2.0 1.6~2.4
Auxiliary Contact		1NO 1NC
Weight		0.075
Dimensions (mm) (W×H×D)		45.5×64.8×50

Coil Specification Table

◆ S-P06, S-P09						
Description	AC12V	AC24V	AC48V	AC110V	AC120V	AC220V
Coil rated specifications marking	12V 50Hz	24V 50Hz	48~50V 50Hz	100V 50Hz	110~120V 50Hz	200~220V 50Hz
	12V 60Hz	24V 60Hz	48~50V 60Hz	100~110V 60Hz	115~120V 60Hz	220V 60Hz
Description	AC230V	AC240V	AC380V	AC440V	AC480V	AC550V
Coil rated specifications marking	230V 50Hz	220~240V 50Hz	346~380V 50Hz	400V 50Hz	415~440V 50Hz	500V 50Hz
	230V 60Hz	240~260V 60Hz	380V 60Hz	400~440V 60Hz	460~480V 60Hz	500~550V 60Hz

Magnetic Contactor / Motor Starter ◆ DC control

						
Type	Magnetic Contactor	Nonreversing		SD-P11	SD-P16	SD-P21
		Reversing		SD-2×P11	SD-2×P16	SD-2×P21
	Motor Starter	without enclosure	Nonreversing	MDO-P11	MDO-P16	MDO-P21
			Reversing	MDO-2×P11	MDO-2×P16	MDO-2×P21
		with enclosure	Nonreversing	-	-	-
			Reversing	-	-	-
		with enclosure (push button)	Nonreversing	-	-	-
			TOR		Standard	TH-P12
			Differential	TH-P12PP	TH-P20PP	TH-P20PP
	Rated Capacity	IEC 60947-4-1 EN 60947-4-1 DIN VDE 0660 AC 3 (kW/HP/A)	3 ø	240V	3.5/ 4.5/ 13	4.5/ 6/ 18
380/440V				5.5/ 7.5/ 12	7.5/ 10/ 18	11/ 15/ 21
550V				5.5/ 7.5/ 9	7.5/ 10/ 13	11/ 15/ 17
660V				5.5/ 7.5/ 7	7.5/ 10/ 9	11/ 15/ 14
Continuous current (Ith) AC1 (A)			20	30	32	
UL 508 CSA-C22.2 AC3 (HP/A)		1 ø	110~120V	0.5/ 9.8	1/ 16	2/ 24
			220~240V	2/ 12	3/ 17	3/ 17
		3 ø	220~240V	3/ 9.6	5/ 15.2	7.5/ 22
			440~480V	7.5/ 11	10/ 14	15/ 21
			550~600V	10/ 11	10/ 11	15/ 17
		Continuous current (Ith) AC1 (A)		24	30	35
		NEMA			0	0
Auxiliary contact			1NO or 1NC	1NO 1NC	1NO 1NC	
Control coil voltage DC (V)			12/ 24/ 30*/ 48/ 72/ 110/ 125/ 220			
Electrical Life AC3 (10 thousand)			120	120	120	
Mechanical Life (10 thousand)			600	600	600	
Magnetic Contactor	Weight (kg)		0.33	0.37	0.38	
	Appearance Dimensions (W×H×D) (mm)		43×81×83.5	53.5×81×83.5	53.5×81×83.5	
	Installation Dimension (mm)					
Mechanical Interlock			MPU-11	MPU-11	MPU-11	

*Note: control circuit voltage 30V can be customized.