Table of specifications

MC type
Magnetic contactors

Frame size				18AF				22AF			
Type				MC-6a	MC-9a	MC-12a	MC-18a	MC-9b	MC-12b	MC-18b	MC-22b
	Screws clamp terminals			●	●	●	●	●	●	●	●
	Lug clamp terminals										
Number of poles				3pole				3pole			
Rated operational voltage, Ue				690V				690V			
Rated insulation voltage, Ui				690V				690V			
Rated frequency				50/60Hz				50/60Hz			
Rated impulse withstand voltage, Uimp				6kV				6kV			
Maximum operating rate in operating cycles per hour(AC3)				1800 operations per hour				1800 operations per hour			
Durability	Mechanical			15 mil. operations				15 mil. operations			
	Electrical			2.5 mil. operations				2.5 mil. operations			
Current and power	AC-1, Thermal current		A	25	25	25	32	25	27	32	45
	AC-3	200/240V	kW	2.2	2.5	3.5	4.5	2.5	3.5	4.5	5.5
			A	9	11	13	18	11	13	18	22
		380/440V	kW	3	4	5.5	7.5	4	5.5	7.5	11
			A	7	9	12	18	9	12	18	22
		500/550V	kW	3	4	7.5	7.5	4	7.5	7.5	15
			A	6	7	12	13	7	12	13	20
		690V	kW	3	4	7.5	7.5	4	7.5	7.5	15
			A	4	5	9	9	6	9	9	18
		1000V	kW	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-
Rated Short-time withstand current (IEC 60947)		1s	A	210	250	280	300	250	280	300	400
		10s	A	105	110	120	130	110	120	154	186
		30s	A	70	70	80	85	70	80	100	130
		1min	A	61	61	61	70	61	61	84	90
		3min	A	40	45	47	50	45	50	60	60
		10min	A	30	30	30	40	30	30	40	50
		≥15min	A	25	26	28	30	26	28	30	45
UL rating (50/60Hz)	Continuous current		A	25	25	25	32	25	25	40	40
	Single phase	110~120V	HP	0.5	0.5	0.75	1	0.5	0.75	1	2
		220~240V	HP	1.5	1.5	2	3	1.5	2	3	3
		200~208V	HP	2	2	3	7.5	2	3	7.5	7.5
	Three phase	220~240V	HP	3	3	5	7.5	3	5	7.5	10
		440~480V	HP	5	5	7.5	10	5	7.5	10	15
		550~600V	HP	7.5	7.5	10	15	7.5	10	15	20
	NEMA size			00	00	0	1	00	0	1	
Size and weight	AC control	Weight	kg	0.33				0.34			
		Size(W×H×D)	mm	45×73.5×80.4				45×73.5×87.4			
	DC control	Weight	kg	0.4				0.41			
		Size(W×H×D)	mm	45×73.5×96.6				45×73.5×103.6			
Auxiliary(standard)				1a or 1b				1a1b			
Auxiliary	Side mount			UA-1				UA-1			
	Front mount			UA-2, UA-4				UA-2, UA-4			

Note) Minimum conduct current of Auxiliary contactor is DC 17V 5mA.

MT type
Thermal Overload Relays

Type			MT-12/□	MT-32/□
	screws clamp terminals		●	●
	Lug clamp terminals			
Rated operational voltage, Ue			690V	690V
Rated insulation voltage, Ui			690V	690V
Rated impulse withstand voltage, Uimp			6kV	6kV
Trip class			10A, 20	10A, 20
Setting range			0.1~18A	0.1~40A
Size and weight	Weight	kg	0.1	0.17
	Size(W×H×D)	mm	45×73.2×63.7	45×75×90

* The safety cover of magnetic contactor and thermal overload relay is optional.

40AF		65AF		100AF		
MC-32a	MC-40a	MC-50a	MC-65a	MC-75a	MC-85a	MC-100a
●	●	●	●	●	●	●
		●	●	●	●	●
3pole		3pole		3pole		
1000V		1000V		1000V		
1000V		1000V		1000V		
50/60Hz		50/60Hz		50/60Hz		
8kV		8kV		8kV		
1800 operations per hour		1200 operations per hour		1200 operations per hour		
12 mil. operations		12 mil. operations		12 mil. operations		
2 mil. operations		2 mil. operations		2 mil. operations		1 mil. operations
55	60	100	115	125	135	160
7.5	11	15	18.5	22	25	30
32	40	55	65	75	85	105
15	18.5	22	30	37	45	55
32	40	50	65	75	85	105
18.5	22	30	33	37	45	55
28	32	43	60	64	75	85
18.5	22	30	33	37	45	55
20	23	28	35	42	45	65
22	22	30	30	37	37	37
17	17	23	23	28	28	28
600	700	1000	1050	1100	1200	1320
260	300	550	700	750	800	900
160	190	330	380	400	450	500
100	120	250	270	300	350	400
70	80	150	200	220	270	270
55	65	90	120	140	170	180
50	60	87	96	114	150	160
50	60	70	100	110	135	160
2	3	3	5	5	7.5	10
5	7.5	10	15	15	15	20
7.5	15	20	25	25	30	30
10	15	25	30	30	40	40
20	30	40	50	50	60	75
25	30	50	60	60	75	75
1P	2				3	
0.55		1.05		1.93		
69×83×90		79×106×119		94×140×135.8		
0.77		1.3		2.8		
69×83×117.1		79×106×146.4		94×140×172.3		
2a2b		**2a2b**		**2a2b**		
UA-1		UA-1		UA-1		
UA-2, UA-4		UA-2, UA-4		UA-2, UA-4		

MT-32/□	MT-63/□	MT-95/□
●	●	●
	●	●
690V	690V	690V
690V	690V	690V
6kV	6kV	6kV
10A, 20	10A, 20	10A, 20
0.1~40A	4~65A	7~100A
0.17	0.31/0.33	0.48/0.5
45×75×90	55×81×100	70×97×110

Table of specifications

MC type
Magnetic contactors

Frame size				150AF		225AF		400AF		
Type				MC-130a	MC-150a	MC-185a	MC-225a	MC-265a	MC-330a	MC-400a
	screws clamp terminals			●	●	●	●	●	●	●
	Lug clamp terminals			●	●	●	●			
Number of poles				3pole		3pole		3pole		
Rated operational voltage, Ue				1000V		1000V		1000V		
Rated insulation voltage, Ui				1000V		1000V		1000V		
Rated frequency				50/60Hz		50/60Hz		50/60Hz		
Rated impulse withstand voltage, Uimp				8kV		8kV		8kV		
Maximum operating rate in operating cycles per hour(AC3)				1200 operations per hour		1200 operations per hour		1200 operations per hour		
Durability	Mechanical			5 mil. operations		5 mil. operations		5 mil. operations		2.5 mil. operations
	Electrical			1 mil. operations		1 mil. operations		1 mil. operations		0.5 mil. operations
Current	AC-1, Thermal current		A	200	250	300	350	400	500	520
and	AC-3	200/240V	kW	37	45	55	75	80	90	125
power			A	130	150	185	225	265	330	400
		380/440V	kW	60	75	90	132	147	160	200
			A	130	150	185	225	265	330	400
		500/550V	kW	60	70	110	132	147	160	225
			A	90	100	180	200	225	280	350
		690V	kW	55	55	110	140	160	200	250
			A	60	60	120	150	185	220	300
		1000V	kW	75	75	132	132	147	147	147
			A	50	50	90	90	105	105	105
Rated Short-time		1s	A	1350	1800	2000	2500	3500	4000	4600
withstand current		10s	A	950	1200	1500	1700	2400	3000	4400
(IEC 60947)		30s	A	700	800	1000	1200	1500	2500	2974
		1min	A	550	600	800	1000	1100	1700	1846
		3min	A	350	450	520	700	800	1000	1313
		10min	A	200	300	350	500	600	620	760
		≥15min	A	175	280	320	400	500	553	699
UL rating	Continuous current		A	200	250	300	350	400	500	520
(50/60Hz)	Single	110~120V	HP	10	15	15	15	-	-	-
	phase	220~240V	HP	20	25	30	40	-	-	-
		200~208V	HP	40	40	60	60	75	100	125
	Three	220~240V	HP	40	50	60	75	100	100	150
	phase	440~480V	HP	75	100	125	150	200	200	300
		550~600V	HP	75	75	125	150	200	200	300
	NEMA size				4			5		
Size and weight	AC control	Weight	kg	2.4		5.4		9.2		
		Size(W×H×D)	mm	119×158×130.3		138×203×185.1		163×243×204.4		
	DC control	Weight	kg							
		Size(W×H×D)	mm							
Auxiliary(standard)				2a2b		2a2b		2a2b		
Auxiliary	Side mount			UA-1		AU-100, AU-100E (Max.4a4b)		AU-100, AU-100E (Max.4a4b)		
	Front mount			UA-2, UA-4		-		-		

MT type
Thermal Overload Relays

Type			MT150/□	MT225/□	MT400/□
	screws clamp terminals		●	●	●
	Lug clamp terminals		●	●	
Rated operational voltage, Ue			690V	690V	690V
Rated insulation voltage, Ui			690V	690V	690V
Rated impulse withstand voltage, Uimp			6kV	6kV	6kV
Trip class			10A, 20	10A, 20	10A, 20
Setting range			34~150A	65~240A	85~400A
Size and weight	Weight	kg	0.67	2.5	2.6
	Size(W×H×D)	mm	95×109×113	147×141×184	151×171×198

* The safety cover of magnetic contactor and thermal overload relay is optional.

800AF			1260AF	2650AF			
MC-500a	MC-630a	MC-800a	MC-1260a	MC-1400a	MC-1700a	MC-2100a	MC-2650a
●	●	●	●	●	●	●	●
3pole			3pole	3pole			
1000V			1000V	1000V			
1000V			1000V	1000V			
50/60Hz			50/60Hz	50/60Hz			
8kV			8kV	8kV			
1200 operations per hour			300 operations per hour	300 operations per hour			
2.5 mil. operations			0.5 mil. operations	0.5 mil. operations			0.3 mil. operations
0.5 mil. operations			0.05 mil. operations	0.05 mil. operations			0.02 mil. operations
700	900	1050	1260	1400	1700	2100	2650
147	190	220	-	290	310	-	
500	630	800	-	860	1050	-	
265	330	440	-	550	700	900	
500	630	800	-	860	1050	1450	
265	330	500	-	-	-	-	
400	500	720	-	-	-	-	
300	400	500	-	800	1000	-	
380	420	630	-	800	950	-	
280	280	280	-	-	-	-	
220	220	220	-	-	-	-	
6000	7000	7500	8000	-	-	-	
5050	6400	7000	7200	8000	10000	10000	
4400	4500	4900	5200	-	-	-	
3400	3500	3800	4000	4500	5500	5500	
2000	2200	2500	2300	-	-	-	
1400	1550	1550	3000	2600	3000	3000	
1100	1300	1300	1500	-	-	-	
700	900	1050	1260	1400	1700	2100	2650
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
150	200	200					
200	250	300					
400	500	600					
400	500	600					
6		7					
22.4 285×312×245.3			23.5 285×352×246	33.8 431×380×246			47 431×392 ×246
2a2b			**2a2b**	**2a2b**			
AU-100, AU-100E (Max.4a4b)			AU-100, AU-100E (Max.4a4b)	AU-100, AU-100E (Max.4a4b)			
-			-	-			

MT-800/□
●
690V
690V
6kV
10A, 20
200~800A
11.5
360×530×212