

# Table of specifications

## MC type Magnetic Contactors



Frame size			18AF				22AF				
Type	screws clamp terminals		MC-6a	MC-9a	MC-12a	MC-18a	MC-9b	MC-12b	MC-18b	MC-22b*	
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	25	32	40	
		AC-3	200/240V	kW	2.2	2.5	3.5	4.5	2.5	3.5	4.5
			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	
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	5	2	3	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	0	00	00	0	1	
Size and weight	AC control	Weight	0.33				0.34				
		Size(W × H × D)	45 × 73.5 × 82				45 × 73.5 × 86				
	DC control	Weight	0.5				0.51				
		Size(W × H × D)	45 × 83 × 113.7				45 × 73.5 × 117.7				
Auxiliary(standard)			<b>1a or 1b</b>				<b>1a1b</b>				
Auxiliary	Side mount		UA-1				UA-1				
	Front mount		AU-2, AU-4				AU-2, AU-4				

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

## MT type Thermal Overload Relays



Type	Screws clamp terminals		MT-12/□		MT-32/□	
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)	45 × 73.2 × 63.7		45 × 75 × 90	

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



**40AF**

MC-32a	MC-40a
●	●
3pole	
690V	
1000V	
50/60Hz	
8kV	
1800 operations per hour	
12 mil. operations	
2 mil. operations	
50	60
7.5	11
32	40
15	18.5
32	40
18.5	22
28	32
18.5	22
20	23
50	60
2	3
5	7.5
7.5	15
10	15
20	30
25	30
1	1
0.55	
69 × 83 × 93	
0.77	
69 × 83 × 120	
UA-1	
AU-2, AU-4	



**MT-32/□**

●
690V
690V
6kV
10A, 20
0.1~40A
0.17
45 × 75 × 90



**65AF**

MC-50a	MC-65a
●	●
3pole	
690V	
1000V	
50/60Hz	
8kV	
1800 operations per hour	
12 mil. operations	
2 mil. operations	
70	100
15	18.5
55	65
22	30
50	65
30	33
43	60
30	33
28	35
70	100
3	5
10	15
20	25
25	30
40	50
50	60
2	2
1.05	
79 × 106 × 122	
1.3	
79 × 106 × 149	
UA-1	
AU-2, AU-4	



**MT-63/□**

●
690V
690V
6kV
10A, 20
4~65A
0.31/0.33
55 × 81 × 100



**100AF**

MC-75a	MC-85a	MC-100a
●	●	●
3pole		
690V		
1000V		
50/60Hz		
8kV		
1800 operations per hour		
12 mil. operations		
2 mil. operations		
110	135	160
22	25	30
75	85	105
37	45	55
75	85	105
37	45	55
64	75	85
37	45	45
42	45	65
110	135	160
5	7.5	10
15	15	20
25	30	30
30	40	40
50	60	75
60	75	75
2	3	3
1.93		
94 × 140 × 137		
2.8		
94 × 140 × 174		
UA-1		
AU-2, AU-4		



**MT-95/□**

●
690V
690V
6kV
10A, 20
7~100A
0.48/0.5
70 × 97 × 110

# Table of specifications

## MC type Magnetic Contactors



Frame size			150AF		225AF	
Type			MC-130a	MC-150a	MC-185a	MC-225a
screws clamp terminals			●	●	●	●
Number of poles			3pole		3pole	
Rated operational voltage, Ue			690V		690V	
Rated insulation voltage, Ui			1000V		1000V	
Rated frequency			50/60Hz		50/60Hz	
Rated impulse withstand voltage, Uimp			8kV		8kV	
Maximum operating rate in operating cycles per hour(AC3)			1200 operations per hour		1200 operations per hour	
Durability			5 mil. operations		5 mil. operations	
Electrical			1 mil. operations		1 mil. operations	
Current and power	AC-1, Thermal current	A	160	210	230	275
	AC-3	200/240V kW	37	45	55	75
		A	130	150	185	225
		380/440V kW	60	75	90	132
		A	130	150	185	225
		500/550V kW	60	70	110	132
	A	90	100	180	200	
	690V kW	55	55	110	140	
	A	60	60	120	150	
UL rating (50/60Hz)	Continuous current	A	160	210	230	275
	Single phase	110~120V HP	10	15	15	15
		220~240V HP	20	25	30	40
	Three phase	200~208V HP	40	40	60	60
		220~240V HP	40	50	60	75
		440~480V HP	75	100	125	150
	550~600V HP	75	75	125	150	
Size and weight	NEMA size		3	4	4	4
	AC control	Weight kg	2.4		5.4	
Size and weight	DC control	Weight kg	2.3		138 × 203 × 181	
	Size(W × H × D) mm		95 × 158 × 132			
Auxiliary(standard)			UA-1		2a2b	
Auxiliary	Side mount		AU-2, AU-4		AU-100 (Max.4NO4NC)	
	Front mount				-	

## MT type Thermal Overload Relays



Type			MT-150/□	MT-225/□
Screws 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			34~150A	65~240A
Size and weight	Weight	kg	0.67	2.5
	Size(W × H × D) mm		95 × 109 × 113	147 × 141 × 184

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



**400AF**

MC-265a	MC-330a	MC-400a
●	●	●
3pole		
690V		
1000V		
50/60Hz		
8kV		
1200 operations per hour		
5 mil. operations		2.5 mil. operations
1 mil. operations		0.5 mil. operations
300	350	450
80	90	125
265	330	400
147	160	200
265	330	400
147	160	225
225	280	350
160	200	250
185	225	300
300	350	450
-	-	-
-	-	-
75	100	125
100	125	150
200	250	300
200	250	300
5	5	5

9.2  
163 × 243 × 198

**2a2b**

AU-100 (Max.4NO4NC)



**MT-400/□**

●
690V
690V
6kV
10A, 20
85~400A
2.6
151 × 171 × 198



**800AF**

MC-500a	MC-630a	MC-800a
●	●	●
3pole		
690V		
1000V		
50/60Hz		
8kV		
1200 operations per hour		
2.5 mil. operations		0.5 mil. operations
580	660	900
147	190	220
500	630	800
265	330	440
500	630	800
265	330	500
400	500	720
300	400	500
380	420	630
580	660	900
-	-	-
-	-	-
150	200	200
200	250	300
400	500	600
400	500	600
6	6	7

22.4  
285 × 312 × 242

**2a2b**

AU-100 (Max.4NO4NC)



**MT-800/□**

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