

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				●	●	●	●	●	●	●	●
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				15 mil. operations				15 mil. operations			
Mechanical				2.5 mil. operations				2.5 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	40	40
	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
		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	40	26	28	40	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)				1NO or 1NC				1NO1NC			
Auxiliary				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 c 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	
MC-32a	MC-40a
●	●
3pole	
1000V	
1000V	
50/60Hz	
8kV	
1800 operations per hour	
12 mil. operations	
2 mil. operations	
50	50
7.5	11
32	40
15	18.5
32	40
18.5	22
28	32
18.5	22
20	23
22	22
17	17
600	700
260	300
160	160
100	100
70	70
55	55
50	50
50	50
2	2
5	5
7.5	7.5
10	10
20	20
25	25
1P	2
0.55	
69 × 83 × 90	
0.77	
69 × 83 × 117.1	
2a2b	
UA-1	
UA-2, UA-4	



65AF	
MC-50a	MC-65a
●	●
3pole	
1000V	
1000V	
50/60Hz	
8kV	
1200 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
30	30
23	23
1000	1050
550	700
330	380
250	270
150	200
90	120
87	100
70	100
3	5
10	15
20	25
25	30
40	50
50	60
1.05	
79 × 106 × 119	
1.3	
79 × 106 × 146.4	
2a2b	
UA-1	
UA-2, UA-4	



100AF		
MC-75a	MC-85a	MC-100a
●	●	●
3pole		
1000V		
1000V		
50/60Hz		
8kV		
1200 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	55
42	45	65
37	37	37
28	28	28
1100	1200	1320
750	800	900
400	450	500
300	350	400
220	270	270
140	170	180
114	150	160
110	135	160
5	7.5	10
15	15	20
25	30	30
30	40	40
50	60	75
60	75	75
3		
1.93		
94 × 140 × 135.8		
2.8		
94 × 140 × 172.3		
2a2b		
UA-1		
UA-2, UA-4		



MT-32/□
●
690V
690V
6kV
10A, 20
0.1~40A
0.17
45 × 75 × 90



MT-63/□
●
690V
690V
6kV
10A, 20
4~65A
0.31/0.33
55 × 81 × 100



MT-95/□
●
690V
690V
6kV
10A, 20
7~100A
0.48/0.5
70 × 97 × 110