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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			15 mil. operations				15 mil. operations				
Electrical			2.5 mil. operations				2.5 mil. operations				
Current power	AC-1, Thermal current	A	25	25	25	32	25	27	40	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	1	2	0.5	1	2	2
		220~240V	HP	1.5	1.5	2	3	1.5	2	3	3
	Three phase	200~208V	HP	2	2	3	7.5	2	3	7.5	7.5
		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	0.33				0.34				
		Size(W×H×D)	45×73.5×80.4				45×73.5×87.4				
Auxiliary (standard)	DC control	Weight	0.4				0.41				
		Size(W×H×D)	45×73.5×96.6				45×73.5×103.6				
Auxiliary	Side mount		1a or 1b				1a1b				
	Front mount		UA-1				UA-1				
			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	
MC-32a	MC-40a
●	●
3pole	
1000V	
1000V	
50/60Hz	
8kV	
1800 operations per hour	
12 mil. operations	
2 mil. operations	
55	60
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	190
100	120
70	80
55	65
50	60
50	60
3	3
5	7.5
7.5	15
10	15
20	30
25	30
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	
100	115
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	96
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		1 mil. operations
125	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

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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 and power	AC-1, Thermal current	A	200	250	300	350	400	500	520	
		kW	37	45	55	75	80	90	125	
	AC-3	A	130	150	185	225	265	330	400	
		kW	60	75	90	132	147	160	200	
	380/440V	A	130	150	185	225	265	330	400	
		kW	60	70	110	132	147	160	225	
	500/550V	A	90	100	180	200	225	280	350	
		kW	60	70	110	140	160	200	250	
	690V	A	60	60	120	150	185	220	300	
		kW	75	75	132	132	147	147	147	
1000V	A	50	50	90	90	105	105	105		
	kW	75	75	132	132	147	147	147		
Rated Short-time withstand current (IEC 60947)	1s	A	1350	1800	2000	2500	3500	4000	4600	
	10s	A	950	1200	1500	1700	2400	3000	4400	
	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 (50/60Hz)	Continuous current	A	200	250	300	350	400	500	520
Size and weight	AC control	Single 110~120V	HP	10	15	15	15	-	-	-
		phase 220~240V	HP	20	25	30	40	-	-	-
	Three phase	200~208V	HP	40	40	60	60	75	100	125
		220~240V	HP	40	50	60	75	100	100	150
	440~480V	HP	75	100	125	150	200	200	300	
		550~600V	HP	75	75	125	150	200	200	300
NEMA size				4			5			
Auxiliary (standard)	AC control	Weight	2.4		5.4		9.2			
	DC control	Size(W×H×D) mm	119×158×130.3		138×203×185.1		163×243×204.4			
Auxiliary	Side mount	Weight	2a2b		2a2b		2a2b			
	Front mount	Size(W×H×D) mm	UA-1		UA-100, AU-100E (Max.4a4b)		UA-100, AU-100E (Max.4a4b)			
			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		
MC-500a	MC-630a	MC-800a
●	●	●
3pole		
1000V		
1000V		
50/60Hz		
8kV		
1200 operations per hour		
2.5 mil. operations		
0.5 mil. operations		
700	900	1050
147	190	220
500	630	800
265	330	440
500	630	800
265	330	500
400	500	720
300	400	500
380	420	630
280	280	280
220	220	220
6000	7000	7500
5050	6400	7000
4400	4500	4900
3400	3500	3800
2000	2200	2500
1400	1550	1550
1100	1300	1300
700	900	1050
-	-	-
-	-	-
150	200	200
200	250	300
400	500	600
400	500	600
6		7

1260AF
MC-1260a
●
3pole
1000V
1000V
50/60Hz
8kV
300 operations per hour
0.5 mil. operations
0.05 mil. operations
1260
-
-
-
-
-
-
-
-
-
-
-
8000
7200
5200
4000
2300
3000
1500
1260
-
-

2650AF			
MC-1400a	MC-1700a	MC-2100a	MC-2650a
●	●	●	●
3pole			
1000V			
1000V			
50/60Hz			
8kV			
300 operations per hour			
0.5 mil. operations		0.3 mil. operations	
0.05 mil. operations		0.02 mil. operations	
1400	1700	2100	2650
290	310	-	-
860	1050	-	-
550	700	900	-
860	1050	1450	-
-	-	-	-
-	-	-	-
800	1000	-	-
800	950	-	-
-	-	-	-
-	-	-	-
-	-	-	-
8000	10000	10000	
-	-	-	
4500	5500	5500	
-	-	-	
2600	3000	3000	
-	-	-	
1400	1700	2100	2650
-	-	-	-
-	-	-	-

22.2	24	33.8	47
285 × 310 × 246	285 × 352 × 246	431 × 380 × 246	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

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MC type Magnetic contactors (4pole)

Frame size			
Type	Screw clamp terminal		
Number of poles	4pole		
Rated operational voltage (Ue)	690V		
Rated insulation voltage (Ui)	690V		
Rated frequency	50/60Hz		
Rated impulse withstand voltage, Uimp	6kV		
Maximum operating rate in operating cycles per hour(AC1)	1800 operations per hour		
Durability	Mechanical		
	Electrical		
Current and Power	AC-1	Thermal current	A
		200/240V	kW
		380/400V	kW
		500/550V	kW
		690V	kW
			A
UL rating (50/60Hz)	Single Phase	110~120V	HP
		220~240V	HP
	Three Phase	200~208V	HP
		220~240V	HP
		440~480V	HP
		550~600V	HP
Size and weight	AC Control	Weight	kg
		Size(W×H×D)	mm
	DC Control	Weight	kg
		Size(W×H×D)	mm
Auxiliary(standard)			
Auxiliary	Side Mount		
	Front Mount		



18AF			
MC-6a/4	MC-9a/4	MC-12a/4	MC-18a/4
●			
4pole			
690V			
690V			
50/60Hz			
6kV			
1800 operations per hour			
15 mil. Operations			
0.5 mil. Operations		0.8 mil. Operations	
25	25	25	40
9	9	9	15
25	25	25	40
17	17	17	27
25	25	25	40
21	21	21	35
25	25	25	40
27	27	27	44
25	25	25	40
25	25	25	32
0.5	0.5	0.75	1
1.5	1.5	2	3
2	2	3	7.5
3	3	5	7.5
5	5	7.5	10
7.5	7.5	10	15
0.33			
45×73.5× 80.4			
0.4			
45×73.5×96.6			
-			
UA-1			
UA-2, UA-4			



22AF	
MC-22a/4	
●	
4pole	
690V	
690V	
50/60Hz	
6kV	
1800 operations	
15 mil. Operations	
1 mil. Operations	
40	
15	
40	
27	
40	
35	
40	
44	
40	
32	
2	
3	
7.5	
7.5	
10	
15	
0.4	
47.2×80×86.8	
0.5	
47.2×80×113.2	
-	
AU-1	
UA-2, UA-4	

40AF	
MC-32a/4	MC-40a/4
●	
4pole	
690V	
690V	
50/60Hz	
6kV	
1800 operations per hour	
15 mil. Operations	
1 mil. Operations	
50	60
18	22
50	60
35	42
50	60
43	52
50	60
55	66
50	60
45	50
2	3
5	5
7.5	10
10	10
20	25
20	25
0.59	
59×83.5×94.6	
0.7	
59×83.5×121	
-	
AU-1	
UA-2, UA-4	

85AF			
MC-50a/4	MC-65a/4	MC-75a/4	MC-85a/4
●			
4pole			
690V			
1000V			
50/60Hz			
8kV			
1800 operations per hour			
12 mil. Operations			
1 mil. Operations			
80	100	110	135
30	37	41	51
80	100	110	135
56	70	76	95
80	100	110	135
70	88	97	120
80	100	110	135
88	110	120	150
80	100	110	135
70	80	90	100
3	5	5	7.5
7.5	10	15	15
10	15	20	25
15	20	25	30
30	40	50	50
30	40	50	50
1.2			
91×123.5×117.8			
1.29			
91×123.5×117.8			
-			
AU-1			
UA-2, UA-4			

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MC type Magnetic contactors (4pole)

Frame size			
Type	Screw clamp terminal		
Number of poles	4pole		
Rated operational voltage (Ue)	690V		
Rated insulation voltage (Ui)	1000V		
Rated frequency	50/60Hz		
Rated impulse withstand voltage, Uimp	8kV		
Maximum operating rate in operating cycles per hour(AC1)	1200 operations per hour		
Durability	Mechanical		
	5 mil. Operations		
Durability	Electrical		
	0.8 mil. Operations		
Current and Power	AC-1	Thermal current	A
		200/240V	kW
	380/400V	kW	A
		500/550V	kW
	690V	kW	A
			kW
UL rating (50/60Hz)	Continuous current		A
		Single	110~120V HP
	Phase	220~240V	HP
		200~208V	HP
	Three	220~240V	HP
		Phase	440~480V HP
	550~600V	HP	
			HP
Size and weight	AC	Weight	kg
		Control	Size(W×H×D) mm
	DC	Weight	kg
		Control	Size(W×H×D) mm
Auxiliary(standard)			
Auxiliary	Side Mount		
	Front Mount		



225AF				
MC-100a/4	MC-130a/4	MC-150a/4	MC-185a/4	MC-225a/4
●				
4pole				
690V				
1000V				
50/60Hz				
8kV				
1200 operations per hour				
5 mil. Operations				
0.8 mil. Operations				
200	250	275	300	350
57	60	76	87	100
200	250	275	300	350
106	110	142	165	185
200	250	275	300	350
132	137	180	205	230
200	250	275	300	350
165	170	225	255	290
200	250	275	300	350
200	250	275	300	350
7.5	10	15	15	15
15	20	25	30	40
30	40	40	60	60
30	40	50	60	75
60	75	100	125	150
60	75	100	125	150
5.6				
175×203×185				
2NO2NC				
AU-100, AU-100E				
-				

* - FLA = 722 A, LRA = 5618 A
 ** - FLA = 566 A, LRA = 4495 A



400AF

MC-265a/4	MC-330a/4	MC-400a/4
●		
4pole		
690V		
1000V		
50/60Hz		
8kV		
1200 operations per hour		
2.5 mil. Operations		
0.5 mil. Operations		
400	500	520
115	135	160
400	500	520
215	250	300
400	500	520
265	315	375
400	500	520
335	390	470
400	500	520
400	500	520
-	-	-
-	-	-
75	100	125
100	100	150
200	200	300
200	200	300

9.9
206×243×205

2NO2NC

AU-100, AU-100E
-

800AF

MC-500a/4	MC-630a/4	MC-800a/4
●		
4pole		
690V		
1000V		
50/60Hz		
8kV		
1200 operations per hour		
2.5 mil. Operations		
0.5 mil. Operations		
700	900	1050
245	255	310
700	900	1050
450	470	570
700	900	1050
560	590	710
700	900	1050
710	740	900
700	900	1050
700	900	1050
-	-	-
-	-	-
150	200	200
200	250	300
400	500	600 *
400	500	600 **

26.3
346×310×244

2NO2NC

AU-100, AU-100E
-

Table of specifications

Renewable Magnetic Contactor

- Eco-friendly contact material applied (Cd free)
- Type 2 coordination data with MCCB or ACB



Frame size			
Type	Screws clamp terminals		
Number of poles		pole	
Rated operational voltage(Ue)		Vac	
Rated insulation voltage(Ui)		Vac	
Rated frequency		Hz	
Rated impulse withstand voltage(Uimp)		kV	
Mechanical operating cycle		cycles/hour	
Electrical operating cycle		cycles/hour	
Durability	Mechanical	million	
	Electrical(AC-1 @690V)	million	
	Electrical(AC-1 @400V)	million	
Current and Power (IEC)	AC-1 1000V 55/60/70°C	A	
	Thermal current	A	
	Heat dissipation	W	
Rated Short-time withstand current(Icw) (IEC 60947)	1s	A	
	10s	A	
	1min	A	
	10min	A	
max. breaking capacity(Icd)	400V	A	
	690V	A	
	1000V	A	
Type-2 Coordination (with MCCB or ACB)		kA	
Current and HP (UL)	Thermal current	A	
	Single phase	110~120V	HP
		220~240V	HP
	Three phase	200~208V	HP
		220~240V	HP
		440~480V	HP
	550~600V	HP	
Weight		kg	
Size(WxHxD) mm]			
Auxiliary(standard)			
Auxiliary	Side mount		
	Front mount		

1260AF		
MCI-900	MCI-1050	MCI-1260
	●	
	3	
	1000	
	1000	
	50/60	
	8	
600	600	300
600	600	300
100	100	50
26	26	15
50	50	20
900/850/700	1050/875/720	1260/1060/900
900	1050	1260
100	170	170
7000	7500	8000
6400	7000	7200
3500	3800	4000
1550	1550	2300
6000	7500	7500
5000	7000	7000
2000	2500	2500
42kA (Break time: less than 20ms)		
900	1050	1260
-	-	-
-	-	-
200	200	-
250	300	-
500	600	-
500	600	-
22.2	22.2	25
285 x 310 x 246	285 x 310 x 246	285 x 352 x 246
2a2b		
AU-100, AU-100E (max.4a4b)		
-		



2650AF		
MCI-1700	MCI-2100	MCI-2650
	●	
	3	
	1000	
	1000	
	50/60	
	8	
	300	
300	300	120
50	50	30
5	5	2
5	5	5
1700/1450/1300	2100/1750/1500	2650/2350/2150
1700	2100	2650
220	350	350
	12000	
	10000	
	5500	
	3000	
9000	12000	12000
8000	8500	8500
3000	3150	3150
42kA (Break time: less than 50ms)		
1700	2100	2650
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
34.6	34.6	47
431 x 380 x 246	431 x 380 x 246	431 x 392 x 246
2a2b		
AU-100, AU-100E (max.4a4b)		
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