

# 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	27	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
UL rating (50/60Hz)	≥ 15min	A	25	26	28	40	26	28	40	45
	Continuous current	A	25	25	25	32	27	27	32	45
	Single phase 110~120V	HP	0.5	0.5	0.75	1	0.5	0.75	1	2
		HP	1.5	1.5	2	3	1.5	2	3	3
	200~240V	HP	2	2	3	7.5	2	3	7.5	7.5
		HP	3	3	5	7.5	3	5	7.5	10
	Three phase 220~240V	HP	5	5	7.5	10	5	7.5	10	15
HP		7.5	7.5	10	15	7.5	10	15	20	
440~480V	HP									
	HP									
550~600V	HP									
	HP									
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			
DC control	Weight	0.4				0.41				
	Size(W×H×D)	45×73.5×96.6				45×73.5×103.6				
Auxiliary(standard)		<b>1a or 1b</b>				<b>1a1b</b>				
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.