

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	
	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 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	
UL rating (50/60Hz)	≥15min [A]	25	26	28	30	26	28	30	45	
	Continuous current [A]	25	25	25	32	25	25	40	40	
	Single 110~120V [HP]	0.5	0.5	1	2	0.5	1	2	2	
	phase 220~240V [HP]	1.5	1.5	2	3	1.5	2	3	3	
	Three 200~208V [HP]	2	2	3	7.5	2	3	7.5	7.5	
	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			
	DC control	Size(W×H×D) [mm]	45×73.5×80.4				45×73.5×87.4			
	AC control	Weight [kg]	0.4				0.41			
	DC control	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/□
Type	Screws clamp terminals	●
	Lug clamp terminals	●
Rated operational voltage, Ue		690V
Rated insulation voltage, Ui		690V
Rated impulse withstand voltage, Uimp		6kV
Trip class		10A, 20
Setting range		0.1~18A
Size and weight	Weight [kg]	0.1
	Size(W×H×D) [mm]	45×73.2×63.7
		0.17
		45×75×90

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