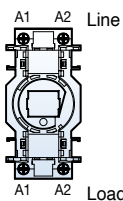


Control coil characteristics (3pole)



Frame size			18AF	22AF	40AF	65AF	100AF	150AF(A)
Type			MC-6a	MC-9b	MC-32a	MC-50a	MC-75a	MC-130a
			MC-9a	MC-12b	MC-40a	MC-65a	MC-85a	MC-150a
			MC-12a	MC-18b		MD-30a	MC-100a	
			MC-18a	MC-22b			MD-60a	
			MR-4, 6, 8				MD-100a	
AC coil								
Control voltage		[Uc]	24, 32, 36, 42, 48, 80, 100, 110, 120, 220, 230, 240, 380, 400, 415, 440, 500, 550V					48, 110~120, 220~240, 300, 380~440, 500V
50Hz	[V]							
60Hz	[V]	24, 48, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V						
Voltage limit		[Uc]	85 ~110%					
Coil consumption at 20°C								
AC 220V	Inrush	[VA]	70	70	90	110	240	110
60Hz	Holding	[VA]	9	9	9	13	17	18
Heat dissipation		[W]	2.3	2.3	2.7	2.8	5.4	2.7
Operating time								
	Closing	[ms]	15 ... 30	15 ... 30	15 ... 30	15 ... 30	15 ... 30	20 ... 40
	Opening	[ms]	4 ... 19	4 ... 19	4 ... 19	4 ... 19	10 ... 30	50 ... 7
DC coil								
Control voltage		[Uc]	12, 20, 24, 30, 48, 60, 80, 100, 110, 125, 200, 220, 250V					24, 48
Voltage limit		[Uc]	85~110%					
Coil consumption at 20°C								
DC 110V ^{Note 4)}	Inrush	[W]	6	6	9	9	18	280 ^{Note 3)}
	Holding	[W]	6	6	9	9	18	7.5
Time constant (L/R)		[ms]	28	28	28	65	75	
Operating time								
	Closing	[ms]	40 ... 70 ^{Note 2)}	40 ... 70 ^{Note 2)}	50 ... 65	50 ... 65	100 ... 120	70 ... 80
	Opening	[ms]	4 ... 19	4 ... 19	4 ... 19	4 ... 19	10 ... 25	60 ... 70

Note) 1. Either semi-electronic coil(A) or electronic coil(B) can be chosen for MC-130a and MC-150a
2. The operation time may increase up to 80ms when re-supply after the ON state continues.
3. MC-150AF is based on DC24V
4. Coil consumptions for the other coil voltages are similar to the above data



Note) A1(A2) in line side is internally connected to A1(A2) in load side.



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Frame size	150AF(B)	225AF	400AF	800AF	1260AF	2650AF
Type	MC-130a MC-150a	MC-185a MC-225a	MC-265a MC-330a MC-400a	MC-500a MC-630a MC-800a MCI-900 MCI-1050	MC-1260a MCI-1260	MC-1400a MC-1700a MC-2100a MC-2650a MCI-1700 MCI-2100 MCI-2650
AC/DC common coil						
Control voltage [Uc]						
AC/DC	AC 24	24/24	DC 24	-	-	-
AC/DC	24~48/24~48	48/48	-	100/100	-	-
AC/DC	100~240/100~220	100~240/100~220	100~240/100~220	200/200	100~240/100~220	100~240/100~220
AC or DC	DC 70~110	AC 300	AC 300	AC 300	-	-
AC or DC	DC 110	AC 400	AC 400	AC 400	-	-
AC or DC	-	AC 500	AC 500	AC 500	-	-
Voltage limit [Uc]	85~110% Note 1)					
Coil consumption at 20°C Note 2)						
AC 220V Inrush [VA]	320	380	571	1000	1500	2500
50/60Hz Holding [VA]	10	11.6	14	29	24	50
Heat dissipation [W]	4.5	4.7	5	7.8	7.8	8.7
Operating time						
Closing [ms]	70	70	55	75	75	80
Opening [ms]	70	70	55	75	75	70

Note) 1. Voltage limit for DC 24V coil is 75~110%.
 2. Operating time for DC 24V coil is 90ms.
 3. Either semi-electronic coil(A) or electronic coil(B) can be chosen for MC-130a and MC-150a
 4. Please check the details page for each AF range



Description

- 4,6,8 pole units
- AC/DC control voltage
- 16A continuous current, lth
- DIN rail or screw mountable
- Degree of protection: IP20

Selection

Poles	Composition	Types	Remarks
4 pole	4NO 3NO1NC 2NO2NC 1NO3NC 4NC	MR-4	Additional auxiliary contacts can be mounted on the relays.
6 pole	6NO 5NO1NC 4NO2NC 3NO3NC 2NO4NC	MR-6	UA-2 is mounted on the MR-4.
8 pole	8NO 7NO1NC 6NO2NC 5NO3NC 4NO4NC	MR-8	UA-4 is mounted on the MR-4.

Note) Product indicated "Low" is for Low current application

Rating

Rated insulation voltage (Ui)			AC 690V				
Continuous current (Ith)			16A				
Operating cycle			1800 operations/hour				
Endurance	Mechanical life time		10 mil. operations				
	Electrical life time		0.25 mil. operations				
Type			MR-4	MR-6		MR-8	
AC-15	Rated current (A)	120V	6	6		6	
		240V	3	3		3	
		380V	1.9	1.9		1.9	
		480V	1.5	1.5		1.5	
		500V	1.4	1.4		1.4	
		600V	1.2	1.2		1.2	
			MR-4	MR-4	UA-2	MR-4	UA-4
DC-13	Rated current (A)	125V	1.1	1.1	0.55	1.1	0.55
		250V	0.55	0.55	0.27	0.55	0.27
		400V	0.31	0.31	0.15	0.31	0.15
		500V	0.27	0.27	0.13	0.27	0.13
		600V	0.2	0.2	0.1	0.2	0.1
Minimum rated through current			DC 24V 10mA				



MR-4



MR-6



MR-8



Coil voltage

AC	50Hz	24, 32, 42, 48, 65, 80, 100, 110, 120, 220, 230, 240, 380, 400, 500, 550V
	60Hz	24, 48, 110, 120, 200, 208, 220, 230, 240, 277, 380, 480, 600V
DC		12, 20, 24, 30, 48, 60, 80, 100, 110, 125, 200, 220, 250V
Voltage limit		85%~110%

Note)

See page 22, 23 for details.

* Please be cautious for wiring control power cable, especially "+" (Positive) and "-" (Negative) polarity should be correctly considered.