

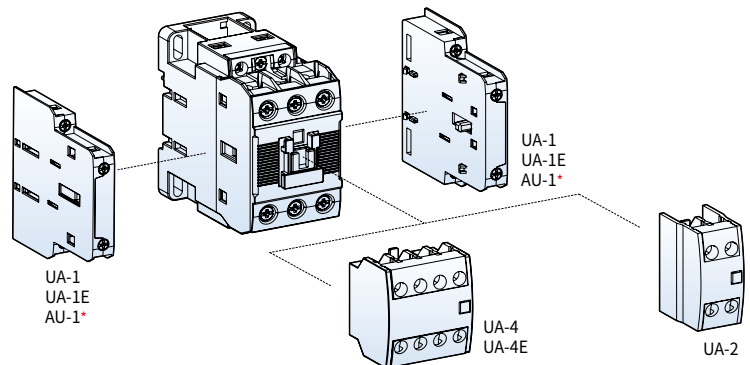
Auxiliary contact units

- 2 and 4 pole
- Side and front mountable
- Common use for Metasol contactors from MC-6a to MC-150a, and from MC-6a/4 to 85a/4
- Auxiliary contact meet the requirements for mirror contacts in IEC 60947-4-1. Annex F
(A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with a NO main contact)

MC-6a~MC-150a

MC-6a/4~85a/4

* AU-1 only applies to MC-22a/4~85a/4.



Selection

Type	Appearance	Pole	Composition		Contact arrangement	Mount	Weight
			No	Nc			
UA-1 UA-1E AU-1		2	1	1		Side	53g
UA-2		2	2 1 -	- 1 2		Front	28g
UA-4 UA-4E		4	4 3 2 1 -	- 1 2 3 4		Front	50g

* UA-1 auxiliary contact can not be attached to the right side of 22AF product

Maximum combination of contact units

MC-6a~18a, 9b~22b (Max. 3a3b)	MC-32a~150a (Max. 4a4b)
UA-4(2a2b)+UA-1×1EA (1EA on one side)	UA-4(2a2b)+UA-1×2EA (1EA on both sides)
UA-2(2a, 1a, 1b, 2b)+UA-1×1EA (1EA on one side)	UA-2(2a, 1a, 1b, 2b)+UA-1×2EA (1EA on both sides)
UA-1×2EA (1EA on both sides)	UA-1×4EA (2EA on both sides) *For AC Coil

* Max. 2a2b can be attached for MC-6a~18a & 9b~22b DC type.

- UA-4(2a2b) 1EA
- UA-2(2a, 1a, 1b, 2b) 1EA
- UA-2(1a1b) 1EA+ UA-1 1EA
- UA-1 1EA



Auxiliary contact units

- 2 pole
- Side mountable
- Auxiliary contact meet the requirements for mirror contacts in IEC 60947-4-1. Annex F
(A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with a NO main contact)



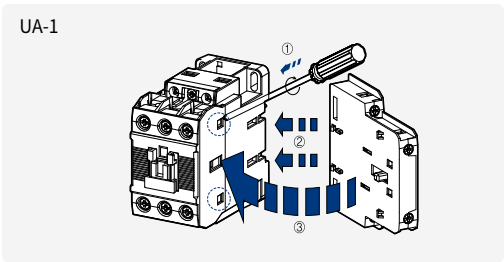
Selection

Type	Appearance	Pole	Composition		Contact arrangement	Mount	Weight
			a(NO)	b(NC)			
AU-100 AU-100E		2	1	1		Side	53g

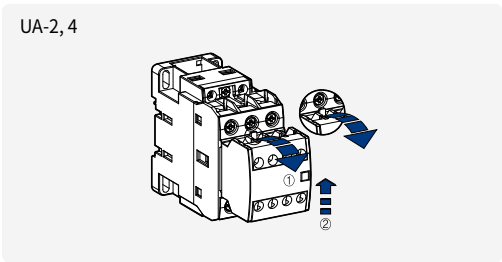
Maximum combination of contact units

MC-185a~2650a (Max. 4a4b)
AU-100 × 4EA (2EA on both sides)
AU-100E × 4EA (2EA on both sides)

Installation



To install side mounting unit remove the indicated part in the circle in the fig. first. And then fit each part as shown.
To separate push forward and pull.



To install front mounting unit fit it on the upper part of the front of the contactor and push it down. To separate pull the lever of the unit and push the unit upward.

Rating

Type			UA-1	AU-1	UA-2, 4	AU-100
Rated operation voltage		(Ue)	600V	600V	600V	600V
Rated insulation voltage		(Ui)	1000V	690V	690V	600V
Rated impulse withstand voltage		(Uimp)	8kV	8kV	6kV	6kV
Rated frequency			50/60Hz	50/60Hz	50/60Hz	50/60Hz
Contact sensibility	Voltage		DC 24V	DC 24V	DC 24V	DC 24V
	Current		DC 10mA	DC 10mA	DC 10mA	DC 10mA
Rated thermal current (Ith, AC12 duty)			16A	16A	16A	16A
Rated operation current	AC15 duty	120V	6A	6A	6A	6A
		240V	3A	3A	3A	3A
		380V	1.9A	1.9A	1.9A	1.9A
		480V	1.5A	1.5A	1.5A	1.5A
		500V	1.4A	1.4A	1.4A	1.4A
		600V	1.2A	1.2A	1.2A	1.2A
		600V	0.2A	0.2A	0.1A	0.2A
Rated	1s	100A	100A	-	100A	
Short-time withstand current	0.5s	125A	125A	-	120A	
	0.1s	145A	145A	-	140A	
Electrical lifetime (Mil. operations)	AC15 duty	220V	0.25	0.25	0.25	0.25
		440V	0.25	0.25	0.25	0.25
Maximum operating cycles per hour			1800	1800	1800	1800
Conductor size (Solid, stranded) (The max. number of conducts : 2)	AWG	18~10	18~10	18~10	18~10	
	mm²	1~2.5	1~2.5	1~2.5	1~2.5	

Pneumatic timer



Air pressure timer



Combination with MC

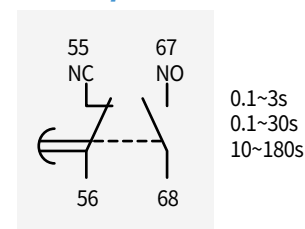
It is attached to the head-on of the magnetic contactor. It uses the principle of air pressure and it is delayed by the set time after the magnetic contactor is inserted and released and then the auxiliary contact of the Pneumatic timer is reversed

UN		1	N
Time delay range		1	0.1 ~ 3s
		2	0.1 ~ 30s
		3	10 ~ 180s
Timer type		N	ON delay
		F	OFF delay

Note) Applicable MC: MC-6a ~ 100a, MC-9b ~ 22b, AC operation voltage

Type		MC-6a~100a / MC-9b~22b					
		UN-1N	UN-2N	UN-3N	UN-1F	UN-2F	UN-3F
Standards		IEC60947-5-1, GB14048.5					
Certification		CCC, CE					
Degree of protection		IP20					
Temperature range	Storage	-25°C ~ +60°C					
	Operation	-5°C ~ +40°C					
Altitude		2,000m less					
Poles		1NO + 1NC					
Rated operating voltage		690V					
Rated insulation voltage		690V					
Frequency		50/60Hz					
Rated operation current(Ie)		A600(AC-15), Q600(DC-13)					
Ith(Thermal current)		10A					
Minimum switching current		10mA					
Irms rated making capacity		10 x Ie AC-15 acc. to IEC 60947-5-1					
Non overlap time		1.5ms					
Setting time		0.1~3s	0.1~30s	10~180s	0.1~3s	0.1~30s	10~180s
Operating time tolerance		±50% less					
Mechanical durability		2.5 mil. operations					

On Delay timer block(UN-N)



Off Delay timer block(UN-F)

