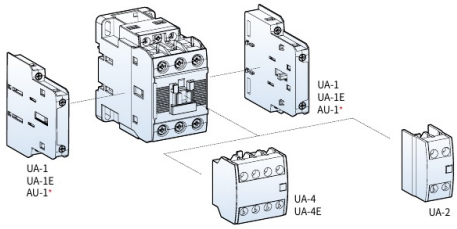
UA Series — Auxiliary Contact Units for Metasol MC Contactors

Accessory

Auxiliary contact units

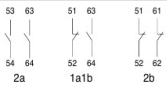
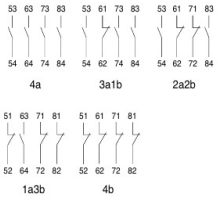
- 2- and 4-pole
- Side and front mount
- General use for Metasol contactors from MC-6a to MC-150a, and from MC-6a/4 to 85a/4
- Auxiliary contact meet the requirements for mirror contacts in IEC 60947-4-1. Annex F (A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with a 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 cannot 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

Rating

Type			UA-1	AU-1	UA-2, 4	AU-100
Rated operating 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 operating 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) (Max number of conductors : 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

The timer attached to the head of the magnetic contactor. Using the principle of air pressure, it is delayed by the set time after the magnetic contactor is inserted and released. Then the auxiliary contact of the pneumatic timer is reversed.

UN - 1 N

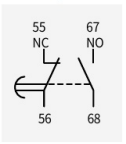
Time delay range	
1	0.1 ~ 3s
2	0.1 ~ 30s
3	10 ~ 180s

Timer type	
N	ON delay
F	OFF delay

Note: Applicable only to MC-6a ~ 100a, MC-9b ~ 22b, and MR-4 models with AC operating coils.

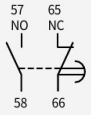
Type	MC-6a~100a / MC-9b~22b					
	UN-1N	UN-2N	UN-3N	UN-1F	UN-2F	UN-3F
Standards	IEC60947-5-1, GB14048.5					
Certification	CCC, CE					
Degree of protection	IP20					
Temperature range Storage	-25°C ~ +60°C					
Temperature range Operation	-5°C ~ +40°C					
Altitude	2,000m less					
Poles	1NO + 1NC					
Rated operating voltage	600V					
Rated insulation voltage	690V					
Frequency	50/60Hz					
Rated operation current(Ie)	A600(AC-15), Q600(DC-13)					
Ith(Thermal current)	10A					
Minimum switching capacity	DC 24V 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)



0.1~3s
0.1~30s
10~180s

Off Delay timer block(UN-F)

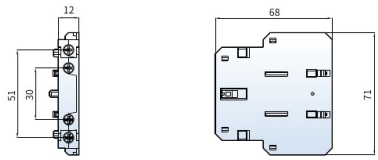


0.1~3s
0.1~30s
10~180s

Dimension

[mm]

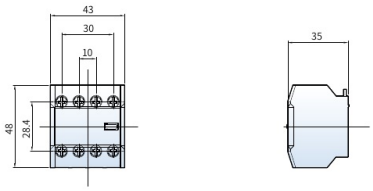
UA-1



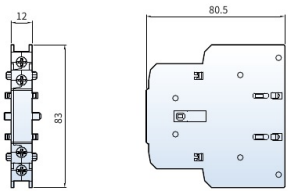
UA-2



UA-4



UR-02



ABILITY — ability-tec.com.sa | Jeddah, KSA | s@ability-tec.com.sa | 0553959444 · Specifications sourced from LS ELECTRIC official catalogue.