



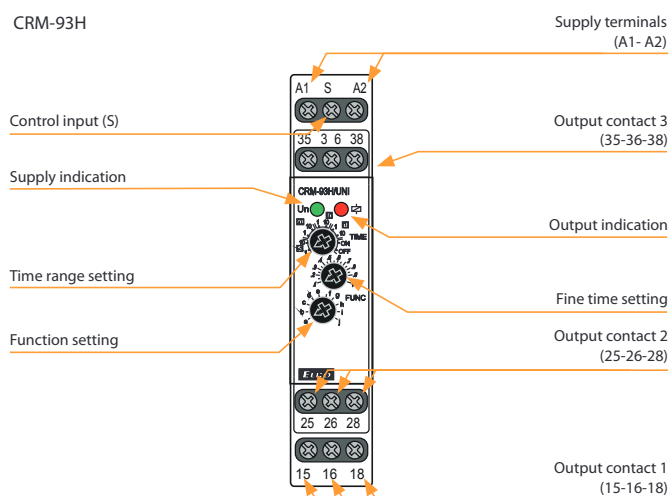
EAN code
 CRM-91H/230V: 8595188112444
 CRM-91H/UNI: 8595188112420
 CRM-93H/230V: 8595188112789
 CRM-93H/UNI: 8595188112468



Technical parameters		CRM-91H	CRM-93H
Power supply			
Supply terminals:	UNI 230	A1 - A2	
Voltage range:		AC/DC 12 - 240 V (AC 50-60 Hz)	
Power input (max.):		2 VA/1.5 W	2.5 VA/1.5 W
Voltage range:		AC 230 V (50/60 Hz)	
Power input (max.):		3VA/1.4W	4VA/2W
Supply voltage tolerance:		-15 %; +10 %	
Supply indication:		green LED	
Time circuit			
Number of functions:	10		
Time ranges:	0.1 s - 10 days		
Time setting:	rotary switch and potentiometer		
Time deviation:	5 % - mechanical setting		
Repeat accuracy:	0.2 % - set value stability		
Temperature coefficient:	0.01 %/°C, at = 20 °C (0.01 %/°F, at = 68 °F)		
Output			
Number of contacts 1:	1x changeover/SPDT (AgNi)		
Current rating:	16 A/AC1		
Breaking capacity:	4000 VA/AC1, 384 W/DC		
Electrical life (AC1):	100.000 ops.		
Number of contacts 2 (3):	x	2x chang./DPDT (AgNi)	
Current rating:	x	8 A/AC1	
Breaking capacity:	x	2000 VA/AC1, 192 W/DC	
Electrical life (AC1):	x	50.000 ops.	
Switching voltage:	250 V AC/24 V DC		
Max. power dissipation:	1.2 W	2.4 W	
Output indication:	multifunction red LED		
Mechanical life:	10.000.000 ops.		
Control			
Control. terminals:	A1-S		
Load between S-A2:	Yes		
Impulse length:	min. 25 ms/max. unlimited		
Reset time:	max. 150 ms		
Other information			
Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)		
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)		
Dielectric strength:	4kV AC		
supply - output 1			
supply - output 2 (3)	x	1kV AC	
output 1 - output 2	x	1kV AC	
output 2 - output 3	x	1kV AC	
Operating position:	any		
Mounting:	DIN rail EN 60715		
Protection degree:	IP40 from front panel/IP20 terminals		
Overvoltage category:	III.		
Pollution degree:	2		
Max. cable size (mm²):	solid wire max. 1x 2.5 or 2x 1.5/ with sleeve max. 1x 2.5 (AWG 12)		
Dimensions:	90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")		
Weight:	UNI - 62 g (2.2 oz.); 230 - 57 g (2 oz.)	UNI - 85 g (3oz.); 230 - 80 g (2.8 oz.)	
Standards:	EN 61812-1		

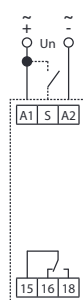
- Multifunction time relay for universal use in automation, control and regulation or in house installations.
- Comfortable and well-arranged function and time-range setting by rotary switches.
- Multifunction red LED flashes or shines depending on the operating status.

Description

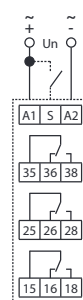


Connection

CRM-91H



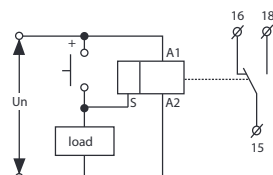
CRM-93H



CRM-93H:
 The potential difference between the supply terminals (A1-A2), output contact 2 (25-26-28) and output contact 3 (35-36-38) must be a maximum of 250V AC rms/DC.

Possibility to connect load onto controlling input

It is possible to connect the load (e.g.: contactor) between terminals S-A2, without any interruption of correct relay function.



Indication of operating states

Examples of signaling

Function a



Function e



Function

Function (page 15).