

RC15: AC - Current

AC - Current metering

Adjustments for setpoint, hysteresis

Selectable activation or release of relay

DC supply or AC supplies up to 230 VAC.

1-or 2-pole relay output



C-mac© module type RC15 is a single current measuring relay, for AC signals, either directly or via current transformer.

The module can be supplied for 1 A, 5 A or 8 A measurement range, which is specified when ordering.

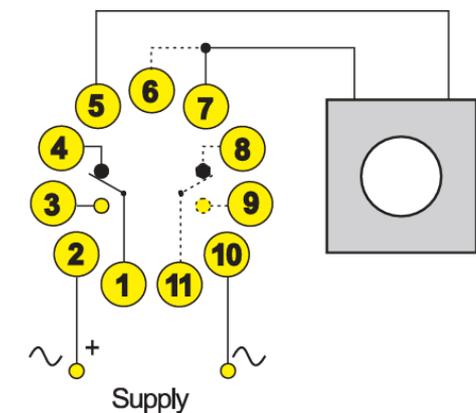
With the help of a connection on the relay base, you can choose whether the relay should pull or de-energize when the set point is exceeded. so that the module can be used both for under- and over-current monitoring

Technical data		
Supply voltage, AC	24, 120 and 230 VAC +/- 10%	
Supply frequency:	40-70 Hz	
Variable supply, :	12-60 VDC or 85-260 VDC	
Isolation voltage:	Supply - input - output: 3.75 kV	
Supply voltage, DC:	24 VDC +/- 10% Note: With this DC-supply there is no isolation between supply and internal electronics	
Power consumption:	2,5 VA	
Operation temp.:	-20°C to +60°C	
Humidity:	0 - 90% RH, non-condensing	
Relay inversion	Pin 6-7	
	Open:	Relay releases at undercurrent
	Closed:	Relay releases at overcurrent
Adjustments:	Level:	Potentiometer, Scale 5 to 100%
	Hysteresis:	Potentiometer, scale 5 to 50%
Indications:	Green LED:	Supply voltage connected
	Red LED	Relay activated
Accuracy, scale	5 %	
Temp. coefficient:	typ 0,1 % / °C	
Max. load, relay:	1-pole:	8A- 250 VAC
	2-pole:	5A- 250 VAC
	Ohmic load	

Metering ranges

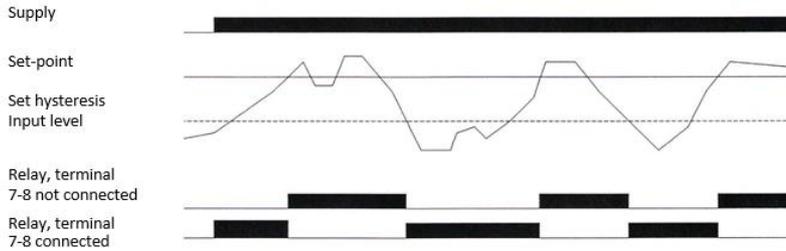
Module	Range	Int. shunt	Max current
RC15	0,05 – 1A AC	0,220 Ω	3 A
	0,25 – 5A AC	0,033 Ω	8 A
	0,25 – 8A AC	0,007 Ω	11 A

Connections

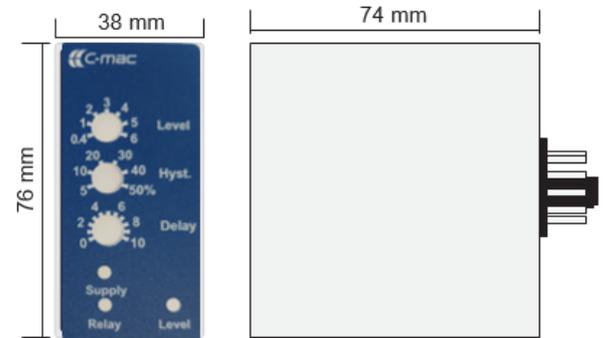


Connections 8-9-11: 2-pole version only.

Functional diagram:



Mechanical dimensions:



Ordering guide RC15			
Type	Relay (x)	Supply	Metering range (y)
RC15	1 = 1 pole	4-012 = 12 - 60 VDC	1 = 0,05 – 1 A
		4-100 = 85 - 260 VAC/DC	
	2= 2 pole	1-024 = 24 VAC	5 = 0,25 – 5 A
		1-120 = 120 VAC	
		1-230 = 230VAC	8 = 0,25 – 8 A
Example:	RC15-x-4-012-y		

EMC and safety regulations

Emmision: EN50081-1
 Immunity: EN50082-2
 Safety: EN60730

Materials and weight:

Housing: NORYL-SE-1, grey, self-extinguishing
 Housing bottom: NORYL SE-1, GFN-2, black
 Terminals: Nickel-plated brass
 Weight: 190 g

