

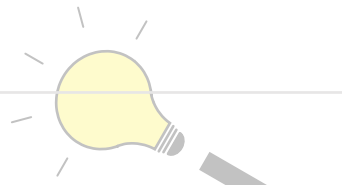
# Product data sheet

Specifications



## Harmony, Modular current control relay, 5 A, 1 CO, overcurrent function, 250 V AC/DC

RM17JC00MW



### Main

Range of product	Harmony Control Relays
Product or component type	Current control relay
Relay type	Current control relay
Relay name	RM17JC
Relay monitored parameters	Overcurrent detection
Time delay	Without
Switching capacity in VA	1250 VA
Minimum switching current	10 mA at 5 V DC
Maximum power consumption in VA	3 VA
Measurement range	2...20 A current
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 DC-14 conforming to IEC 60947-5-1
Contacts type and composition	1 C/O

### Complementary

Maximum switching voltage	250 V AC/DC
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz +/- 10 %
Supply voltage limits	20.4...264 V AC/DC
Operating voltage tolerance	- 15 % + 10 % Un
Maximum power consumption in W	1 W
Control circuit frequency	40...70 Hz sinusoidal
Output contacts	1 C/O
Nominal output current	5 A
Maximum measuring cycle	30 ms measurement cycle as true rms value
Hysteresis	15 % fixed of threshold setting
Delay at power up	0.5 s

<b>Measurement accuracy</b>	+/- 10 % of the full scale value
<b>Repeat accuracy</b>	+/- 0.5 % for input and measurement circuit
<b>Measurement error</b>	+/- 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation
<b>Response time</b>	< 200 ms (in the event of a fault)
<b>Polarity</b>	Yes DC
<b>Threshold setting</b>	10...100 %
<b>Input current</b>	100000 mA permanent at 25 °C 300000 mA non repetitive < 3 s at 25 °C
<b>Marking</b>	CE : 73/23/EEC CE : EMC 89/336/EEC
<b>Overvoltage category</b>	III conforming to IEC 60664-1
<b>Insulation resistance</b>	> 500 MOhm at 500 V DC conforming to IEC 60255-5 > 500 MOhm at 500 V DC conforming to IEC 60664-1
<b>[Ui] rated insulation voltage</b>	400 V conforming to IEC 60664-1
<b>Insulation</b>	Between supply and measurement
<b>Operating position</b>	Any position without derating
<b>Connections - terminals</b>	Screw terminals, 1 x 0.5...1 x 4 mm <sup>2</sup> (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> (AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> (AWG 24...AWG 16) flexible with cable end
<b>Tightening torque</b>	0.6...1 N.m conforming to IEC 60947-1
<b>Housing material</b>	Self-extinguishing plastic
<b>Local signalling</b>	LED (green) for power ON LED (yellow) for relay ON
<b>Mounting support</b>	35 mm symmetrical DIN rail conforming to EN/IEC 60715
<b>Electrical durability</b>	100000 cycles
<b>Mechanical durability</b>	30000000 cycles
<b>Operating rate</b>	<= 360 operations/hour full load
<b>Contacts material</b>	Cadmium free
<b>Width</b>	17.5 mm
<b>Net weight</b>	0.13 kg
<b>Environment</b>	
<b>Immunity to microbreaks</b>	10 ms
<b>Electromagnetic compatibility</b>	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2
<b>Standards</b>	EN/IEC 60255-6
<b>Product certifications</b>	GL C-Tick GOST UL CSA
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Ambient air temperature for operation</b>	-20...50 °C
<b>Relative humidity</b>	95 % at 55 °C conforming to IEC 60068-2-30
<b>Vibration resistance</b>	0.35 mm (f= 5...57.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6...150 Hz) conforming to IEC 60255-21-1
<b>Shock resistance</b>	15 gn for 11 ms conforming to IEC 60255-21-1

<b>IP degree of protection</b>	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
<b>Pollution degree</b>	3 conforming to IEC 60664-1
<b>Dielectric test voltage</b>	2 kV AC 50 Hz
<b>Non-dissipating shock wave</b>	4 kV

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	123.0 g
<b>Package 1 Height</b>	2.8 cm
<b>Package 1 width</b>	9.7 cm
<b>Package 1 Length</b>	10.4 cm
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	32
<b>Package 2 Weight</b>	4.295 kg
<b>Package 2 Height</b>	15 cm
<b>Package 2 width</b>	30 cm
<b>Package 2 Length</b>	40 cm

## Offer Sustainability

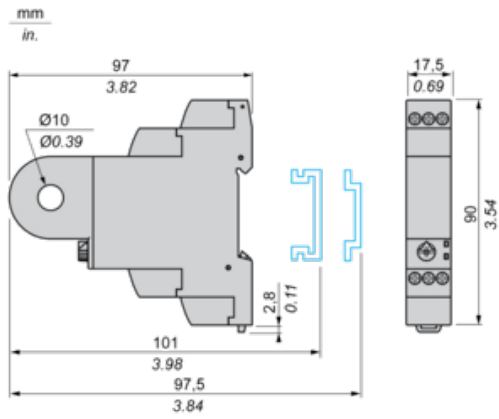
<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

<b>Warranty</b>	18 months
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Current Control Relays

Dimensions and Mounting

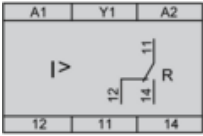


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**Current Control Relays**

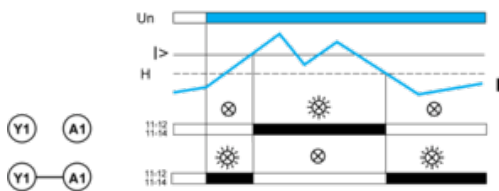
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**Wiring Diagram**



Function Diagram

Control of Overcurrent



Legend

Un Supply voltage

I Monitored current

H Hysteresis

I> Overcurrent threshold (set by means of a potentiometer)

11-12/11-14, 21-22/21-24 Output relay connections (refer to Connections and Schema)

Relay status: black color = energized.

NOTE: When terminal Y1 is linked to A1 (+), the output is reversed.



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