

RM4JA32MW

current measurement relay RM4-J - range 0.3..15 A -
24..240 V AC DC



Main

Range of product	Zelio Control
Product or component type	Industrial measurement and control relays
Relay type	Current measurement relay
Relay name	RM4J
Relay monitored parameters	Overcurrent or undercurrent detection
Time delay	Adjustable 0.05...30 s
Power consumption in VA	1.5...3.3 VA AC
Measurement range	1...5 A current AC 1...5 A current DC 3...15 A current AC 3...15 A current DC 300...1500 mA current AC 300...1500 mA current DC
Contacts type and composition	2 C/O

Complementary

[Us] rated supply voltage	24...240 V AC 50/60 Hz 24...240 V DC
Control circuit voltage limits	0.85...1.1 U _c
Power consumption in W	1.2 W DC
Supply frequency	50/60 Hz +/- 5 %
Width	45 mm
Output contacts	2 C/O
Measuring cycle	<= 80 ms
Internal input resistance	0.006 Ohm 0.02 Ohm 0.06 Ohm
Permissible continuous overload	2 A 20 A 7 A
Permissible non repetitive overload	10 A for <= 3 s 100 A 15 A
Setting accuracy of the switching threshold	+/-5 %
Switching threshold drift	<= 0.06 % per degree centigrade depending permissible ambient air temperature <= 0.5 % within the supply voltage range (0.85...1.1 U _n)
Setting accuracy of time delay	10 P
Time delay drift	<= 0.07 % per degree centigrade depending on temperature <= 0.5 % within the supply voltage range (0.85...1.1 U _n)
Hysteresis	5...30 % adjustable of current threshold setting
Marking	CE : EMC 89/336/EEC CE : LVD 73/23/EEC
Overvoltage category	III conforming to IEC 60664-1
[Ui] rated insulation voltage	500 V conforming to IEC
Supply disconnection value	> 0.1 U _c
Operating position	Any position without derating
Connections - terminals	Screw terminals 2 x 1.5 mm ² , flexible cable with cable end Screw terminals 2 x 2.5 mm ² , flexible cable without cable end
Tightening torque	0.6...1.1 N.m
Mechanical durability	30000000 cycles
[I _{th}] conventional free air thermal current	8 A
[I _e] rated operational current	2 A at 24 V DC-13 70 °C conforming to IEC 60947-5-1/1991

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

2 A at 24 V DC-13 70 °C conforming to VDE 0660
 3 A at 115 V AC-15 70 °C conforming to IEC 60947-5-1/1991
 3 A at 115 V AC-15 70 °C conforming to VDE 0660
 3 A at 24 V AC-15 70 °C conforming to IEC 60947-5-1/1991
 3 A at 24 V AC-15 70 °C conforming to VDE 0660
 3 A at 250 V AC-15 70 °C conforming to IEC 60947-5-1/1991
 3 A at 250 V AC-15 70 °C conforming to VDE 0660
 0.1 A at 250 V DC-13 70 °C conforming to IEC 60947-5-1/1991
 0.1 A at 250 V DC-13 70 °C conforming to VDE 0660
 0.3 A at 115 V DC-13 70 °C conforming to IEC 60947-5-1/1991
 0.3 A at 115 V DC-13 70 °C conforming to VDE 0660

Switching capacity in mA	10 mA at 12 V
Switching voltage	<= 440 V AC 250 V AC
Contacts material	90/10 silver nickel contacts
Number of cables	2
CAD overall width	45 mm
CAD overall depth	80 mm
Terminals description ISO n°1	(15-16-18)OC (25-26-28)OC (A1-A2)CO (C-B1-B2-B3)CO
Output relay state	Tripped if A measured > A set Tripped if V measured > V set
9 mm pitches	5
Product weight	0.204 kg

Environment

Standards	EN/IEC 60255-6
Product certifications	CSA GL UL
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-20...65 °C
Relative humidity	15...85 % 3K3 conforming to IEC 60721-3-3
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP50 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Dielectric test voltage	2.5 kV
Non-dissipating shock wave	4.8 kV
Resistance to electrostatic discharge	6 kV contact conforming to IEC 61000-4-2 level 3 8 kV air conforming to IEC 61000-4-2 level 3
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3
Protection against electric shocks	2 kV conforming to IEC 61000-4-5 level 3
Disturbance radiated/conducted	CISPR 11 group 1 - class A CISPR 22 - class A

Contractual warranty

Period	18 months
--------	-----------