Product data sheet
Characteristics

RM4JA32MW
current measurement relay RM4-J - range 0.3..15 A - 24..240 V AC DC



Commercial status
End of Commercialisation : DEC 31, 2016

⚠ End of Commercialisation

Main

Range of product	Harmony Relay
Relay type	Current measurement relay
Product or component type	Industrial measurement and control relays
Relay name	RM4J
Relay monitored parameters	Overcurrent or undercurrent detection
Contacts type and composition	2 C/O

Complementary

Maximum power consumption in VA	3.3 VA AC
Maximum power consumption in W	1.2 W DC
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
Maximum measuring cycle	80 Ms
Hysteresis	5…30 % adjustable of current threshold setting
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 Un)
Time delay type	Adjustable 0.05...30 s
Setting accuracy of time delay	10 P
Output contacts	2 C/O
Maximum switching voltage	440 V AC
Mechanical durability	30000000 Cycles
Control circuit voltage limits	0.85...1.1 Uc
Internal input resistance	0.06 Ohm 0.006 Ohm 0.02 Ohm
Permissible continuous overload	7 A 20 A 2 A
Permissible non repetitive overload	10 A for <= 3 s 100 A 15 A
Time delay drift	<= 0.07 % per degree centigrade depending on temperature <= 0.5 % within the supply voltage range (0.85...1.1 Un)
Supply disconnection value	> 0.1 Uc

[Ith] conventional free air thermal current	8 A
[Ie] rated operational current	2 A at 24 V DC-13 conforming to IEC 60947-5-1/1991 70 °C 2 A at 24 V DC-13 conforming to VDE 0660 70 °C 3 A at 115 V AC-15 conforming to IEC 60947-5-1/1991 70 °C 3 A at 115 V AC-15 conforming to VDE 0660 70 °C 3 A at 24 V AC-15 conforming to IEC 60947-5-1/1991 70 °C 3 A at 24 V AC-15 conforming to VDE 0660 70 °C 3 A at 250 V AC-15 conforming to IEC 60947-5-1/1991 70 °C 3 A at 250 V AC-15 conforming to VDE 0660 70 °C 0.1 A at 250 V DC-13 conforming to IEC 60947-5-1/1991 70 °C 0.1 A at 250 V DC-13 conforming to VDE 0660 70 °C 0.3 A at 115 V DC-13 conforming to IEC 60947-5-1/1991 70 °C 0.3 A at 115 V DC-13 conforming to VDE 0660 70 °C
Switching capacity in mA	10 mA at 12 V
Switching voltage	250 V AC
Contacts material	90/10 silver nickel contacts
Number of cables	2
Terminals description ISO n°1	(C-B1-B2-B3)CO (25-26-28)OC (A1-A2)CO (15-16-18)OC
Output relay state	Tripped if V measured > V set Tripped if A measured > A set
9 mm pitches	5

Environment

Electromagnetic compatibility	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
Standards	EN/IEC 60255-6
Product certifications	GL[RETURN]UL[RETURN]CSA
Marking	CE : EMC 89/336/EEC CE : LVD 73/23/EEC
Ambient air temperature for storage	-40…85 °C
Ambient air temperature for operation	-20…65 °C
Relative humidity	15…85 % conforming to IEC 60721-3-3
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP50 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Overvoltage category	III conforming to IEC 60664-1
Dielectric test voltage	2.5 KV
[Ui] rated insulation voltage	500 V conforming to IEC
Operating position	Any position without derating
Connections - terminals	Screw terminals, 2 x 1.5 mm²flexible with cable end Screw terminals, 2 x 2.5 mm²flexible without cable end
Tightening torque	0.6…1.1 N.M
Width	45 Mm
Depth	80 Mm
Net weight	0.204 Kg
Environmental characteristic	3K3
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
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: level 3 conforming to IEC 61000-4-5
Disturbance radiated/conducted	CISPR 22 - class A CISPR 11 group 1 - class A

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Offer Sustainability

Sustainable packaging	No

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation

RM4JA32MW may be replaced by any of the following products:



RM35JA32MR

current control relay, Harmony Control Relays, 5A, 2CO, 0.15...15A, 24...240V AC DC

Qty 1

Substitution date: |