

RM4UA02M

voltage measurement relay RM4-U - range 1..100 V - 220..240 V AC

Product availability: Non-Stock - Not normally stocked in distribution facility
Price*: 339.00 USD



Main

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| Commercial Status | Commercialised |
| Range of product | Zelio Control |
| Product or component type | Industrial measurement and control relays |
| Relay type | Voltage measurement relay |
| Relay name | RM4U |
| Relay monitored parameters | Overvoltage or undervoltage detection |
| Time delay | Without time delay |
| Power consumption in VA | 2.7...3.5 VA AC |
| Measurement range | 5...50 V voltage DC 5...50 V voltage AC 50/60 Hz 10...100 V voltage DC 10...100 V voltage AC 50/60 Hz 1...10 V voltage DC 1...10 V voltage AC 50/60 Hz <= 80 ms cycle |
| Contacts type and composition | 1 C/O |

Complementary

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| [Us] rated supply voltage | 220...240 V AC 50/60 Hz |
| Output contacts | 1 C/O |
| Internal input resistance | 112000 Ohm 225000 Ohm 23000 Ohm |
| Permissible continuous overload | 150 V 300 V 90 V |
| Permissible non repetitive overload | 400 A for <= 1 s 200 A for <= 1 s 100 A for <= 1 s |
| Setting accuracy of the switching threshold | +/- 5 % |
| Switching threshold drift | <= 0.5 % within the supply voltage range (0.85...1.1 Un) <= 0.06 % per degree centigrade depending permissible ambient air temperature |
| Setting accuracy of time delay | 10 P |
| Hysteresis | 5...30 % adjustable of voltage 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 |
| Control circuit voltage limits | 0.85...1.1 Uc |
| Supply frequency | 50/60 Hz +/- 5 % |
| Supply disconnection value | > 0.1 Uc |
| Operating position | Any position without derating |
| Connections - terminals | Screw terminals 2 x 2.5 mm ² , flexible cable without cable end Screw terminals 2 x 1.5 mm ² , flexible cable with cable end |
| Tightening torque | 5.31...9.73 lbf.in (0.6...1.1 N.m) |

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| Mechanical durability | <= 30000000 cycles |
| [Ith] conventional free air thermal current | 8 A |
| [Ie] rated operational current | 0.3 A at 115 V DC-13 158 °F (70 °C) conforming to VDE 0660 0.3 A at 115 V DC-13 158 °F (70 °C) conforming to IEC 60947-5-1/1991 0.1 A at 250 V DC-13 158 °F (70 °C) conforming to VDE 0660 0.1 A at 250 V DC-13 158 °F (70 °C) conforming to IEC 60947-5-1/1991 3 A at 250 V AC-15 158 °F (70 °C) conforming to VDE 0660 3 A at 250 V AC-15 158 °F (70 °C) conforming to IEC 60947-5-1/1991 3 A at 24 V AC-15 158 °F (70 °C) conforming to VDE 0660 3 A at 24 V AC-15 158 °F (70 °C) conforming to IEC 60947-5-1/1991 3 A at 115 V AC-15 158 °F (70 °C) conforming to VDE 0660 3 A at 115 V AC-15 158 °F (70 °C) conforming to IEC 60947-5-1/1991 2 A at 24 V DC-13 158 °F (70 °C) conforming to VDE 0660 2 A at 24 V DC-13 158 °F (70 °C) conforming to IEC 60947-5-1/1991 |
| Switching capacity in mA | 10 mA at 12 V |
| Switching voltage | 250 V AC <= 440 V AC |
| Contacts material | 90/10 silver nickel contacts |
| Number of cables | 2 |
| Height | 3.07 in (78 mm) |
| Width | 0.89 in (22.5 mm) |
| Depth | 3.15 in (80 mm) |
| Terminals description ISO n°1 | (15-16-18)OC (A1-A2)CO (C-B1-B2-B3)CO |
| Output relay state | Tripped if A measured > A set |
| 9 mm pitches | 2.5 |
| Product weight | 0.37 lb(US) (0.168 kg) |

Environment

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| Standards | EN/IEC 60255-6 |
| Product certifications | CSA GL UL |
| Ambient air temperature for storage | -40...185 °F (-40...85 °C) |
| Ambient air temperature for operation | -4...149 °F (-20...65 °C) |
| Relative humidity | 15...85 % 3K3 conforming to IEC 60721-3-3 |
| Vibration resistance | 0.35 ms (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance | 15 gn for 11 ms conforming to IEC 60068-2-27 |
| IP degree of protection | IP50 (casing) conforming to IEC 60529 IP20(Terminals) 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 | 8 kV air conforming to IEC 61000-4-2 level 3 6 kV contact conforming to IEC 61000-4-2 level 3 |
| Resistance to electromagnetic fields | 9.14 V/yd (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 |

Ordering and shipping details

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| Category | 22376 - RELAYS-MEASUREMENT(RM4) |
| Discount Schedule | CP2 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.37 |
| Product availability | Non-Stock - Not normally stocked in distribution facility |
| Returnability | N |
| Country of origin | ID |

Contractual warranty

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| Period | 18 months |
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