# Product data sheet
## Characteristics

# RM17TA00
3 phase control relay, Harmony Control Relays, 5A, 1CO, 208...480V AC



## Main

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|---|---|
| Range of product | Harmony Control Relays |
| Relay type | Multifunction control relay |
| Product or component type | 3-phase control relay |
| Relay name | RM17TA |
| Relay monitored parameters | Asymmetry<br>Phase sequence<br>Phase failure detection |
| Control type | Without test button |
| Contacts type and composition | 1 C/O |
| [Uc] control circuit voltage | 208...480 V |
| Product specific application | For 3-phase supply |

## Complementary

| | |
|---|---|
| [Us] rated supply voltage | , self-powered |
| Supply voltage limits | 183…528 V AC |
| Supply frequency | 50/60 Hz +/- 10 % |
| Power consumption in VA | 0…22 VA at 400 V AC 50 Hz |
| Measurement range | 208...480 V AC |
| Measurement voltage limits | 183…528 V AC |
| Maximum measuring cycle | 150 Ms measurement cycle as true rms value |
| Hysteresis | 2 % |
| Adjustment of asymmetry threshold | 5...15 % of Un selected |
| Measurement error | < 0.05 %/°C with temperature variation<br>< 1 % over the whole range with voltage variation |
| Time delay type | Adjustable 0.1...10 s, +/- 10 % of the full scale value Tt- time delay upon fault |
| Reset time | 1500 Ms time delay |
| Response time | < 200 ms (in the event of a fault) |
| Output contacts | 1 C/O |
| Nominal output current | 5 A |
| Maximum switching voltage | 250 V AC |
| Switching capacity in VA | 1250 VA |
| Minimum switching current | 10 MA at 5 V DC |
| Maximum switching current | 5 A AC<br>5 A DC |
| Electrical durability | 100000 Cycles |
| Mechanical durability | 30000000 Cycles |
| Control circuit voltage limits | - 12 % + 10 % Un |

| | |
|---|---|
| Control circuit frequency | 50...60 Hz +/- 10 % |
| Phase failure sensitivity | 0.7 Un |

## Environment

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|---|---|
| Electromagnetic compatibility | Emission standard for industrial environments conforming to IEC 61000-6-4<br>Emission standard for residential, commercial and light-industrial environments conforming to IEC<br>Immunity for industrial environments conforming to IEC 61000-6-2 |
| Standards | IEC 60255-1 |
| Product certifications | GOST[RETURN]CSA[RETURN]GL[RETURN]C-Tick[RETURN]UL |
| Marking | CE |
| Directives | 89/336/EEC - electromagnetic compatibility<br>73/23/EEC - low voltage directive |
| Ambient air temperature for storage | -40…70 °C<br>-40…70 °C |
| Ambient air temperature for operation | -20…50 °C |
| Relative humidity | 95 % at 55 °C conforming to IEC 60068-2-30 |
| IP degree of protection | IP20 (terminals) conforming to IEC 60529<br>IP30 (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 KV, 1 min AC 50 Hz conforming to IEC 60255-5 |
| Insulation resistance | > 500 MOhm at 500 V DC conforming to IEC 60255-5 |
| [Ui] rated insulation voltage | 400 V conforming to IEC 60664-1 |
| Operating position | Any position without derating |
| Connections - terminals | Screw terminals, 1 x 0.5...1 x 4 mm² (20 AWG...11 AWG) solid without cable end<br>Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end<br>Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...12 AWG) flexible with cable end<br>Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end |
| Tightening torque | 0.6…1 N.M conforming to IEC 60947-1 |
| Housing material | Polycarbonate |
| Local signalling | LED (green) for power ON<br>LED (yellow) for relay ON |
| Mounting support | 35 mm symmetrical DIN rail conforming to IEC 60715 |
| Safety reliability data | MTTFd = 502.2 years<br>B10d = 470000 |
| Height | 90 Mm<br>88.9 Mm |
| Width | 17.5 Mm<br>17.8 Mm |
| Depth | 72 Mm<br>71.1 Mm |
| Net weight | 0.08 Kg<br>0.08 Kg |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.800 Cm |
| Package 1 Width | 7.800 Cm |
| Package 1 Length | 9.600 Cm |
| Package 1 Weight | 92.000 G |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 48 |
| Package 2 Height | 15.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 4.700 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 0 |
| Total lifecycle Carbon footprint | 98 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1.973381242310562 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.25717870043528057 |
| Carbon footprint of the distribution phase [A4] | 0.3 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.000389720788736194 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 95.41983755211216 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 95 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.2351375632946527 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.2 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 98 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | Ba9cbb5b-722a-41d2-b7d0-f60d5f3f104d |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, w |
| End of life manual availability | End Of Life Information |
| Take-back | No |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised