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Especialistas en Automatización

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Relay Module - PLC-RPT- 24UC/21/RW - 2900318

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PLC-INTERFACE for railway applications, consisting of basic terminal block with push-in connection and plug-in miniature relay with power contact, range: $0.7 \times U_N$ to $1.25 \times U_N$, temperature class TX: -40°C to $+70^\circ\text{C}$, 1 PDT, input voltage 24 V DC

Why buy this product

- Optimum relay operation thanks to wide-range electronics
- Certified according to EN 50155
- Vibration and shock resistance according to EN 50155
- Safe isolation according to DIN EN 50178 between coil and contact
- Temperature range from -40°C to $+70^\circ\text{C}$ ($+85^\circ\text{C}$ briefly)
- Spring-cage and Push-in connection technology
- Input voltage range of 0.7 to $1.25 \times U_N$ ($1.4 \times U_N$ briefly)



Key Commercial Data

| | |
|--------------|---------------------|
| Packing unit | 10 STK |
| GTIN | 4 046356 507400 |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40°C ... 70°C (Temperature class TX) |
| Ambient temperature (storage/transport) | -40°C ... 85°C |

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Technical data

Coil side

| | |
|---|-----------------------------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.7 ... 1.25 |
| Typical input current at U_N | 9 mA |
| Typical response time | 4 ms |
| Typical release time | 4 ms |
| Coil voltage | 12 V DC |
| Protective circuit | Bridge rectifier Bridge rectifier |
| | Free-wheeling diode Damping diode |
| | Surge protection |
| | RCZ filter |
| | Wide-range electronics |
| Operating voltage display | Yellow LED |
| Power dissipation for nominal condition | 0.22 W |

Contact side

| | |
|--|---|
| Contact type | 1 PDT |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.) |
| Minimum switching voltage | 5 V (at 100 mA) |
| Min. switching current | 10 mA (at 12 V) |
| Maximum inrush current | 10 A (4 s) |
| Limiting continuous current | 6 A |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 20 W (at 48 V DC) |
| | 18 W (at 60 V DC) |
| | 23 W (at 110 V DC) |
| | 40 W (at 220 V DC) |
| | 1500 VA (for 250 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1 A (at 24 V, DC13) |
| | 0.2 A (at 110 V, DC13) |
| | 0.1 A (at 220 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 A (at 230 V, AC15) |

Connection data input side

| | |
|-------------------------------|--|
| Connection name | Coil side |
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 0.14 mm ² ... 2.5 mm ² |

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Technical data

Connection data input side

| | |
|----------------------------------|--|
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 26 ... 14 |

Connection data output side

| | |
|----------------------------------|--|
| Connection name | Contact side |
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 26 ... 14 |

General

| | |
|--|---|
| Test voltage relay winding/relay contact | 4 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | RT III (Relay) IP20 (Relay socket) |
| Mechanical service life | Approx. 2 x 10 ⁷ cycles |
| Flammability rating according to UL 94 | V0 |
| Standards/regulations | EN 50155 (VDE 0115 part 200) EN 50178 IEC 62103 EN 61373 EN 50121 |
| Rated surge voltage/insulation | 6 kV |
| Rated insulation voltage | 250 V AC |
| Degree of pollution | 2 |
| Overvoltage category | III |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

Standards and Regulations

| | |
|----------------------------------|---|
| Connection in acc. with standard | CUL |
| Standards/regulations | EN 50155 (VDE 0115 part 200) EN 50178 IEC 62103 EN 61373 EN 50121 |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage/insulation | 6 kV |
| Degree of pollution | 2 |
| Overvoltage category | III |

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Technical data

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371001 |
| eCl@ss 4.1 | 27371001 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC001437 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11 | 39121515 |
| UNSPSC 12.01 | 39121515 |
| UNSPSC 13.2 | 39121515 |

Approvals

Approvals

Approvals

GL / UL Listed / cUL Listed / UL Recognized / cUL Recognized / EAC / RC FRT / EAC / cULus Recognized / cULus Listed

Ex Approvals


Approvals submitted

Approval details


| |
|----|
| GL |
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Approvals

UL Listed 

cUL Listed 


UL Recognized 

cUL Recognized 

EAC

RC FRT

EAC

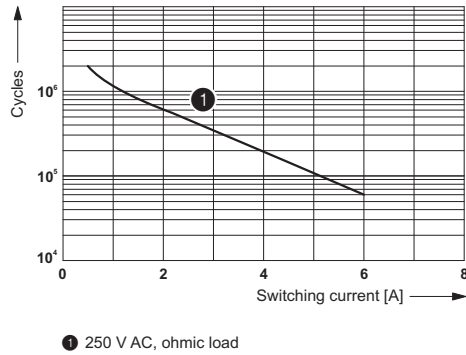
cULus Recognized 

cULus Listed 

Drawings

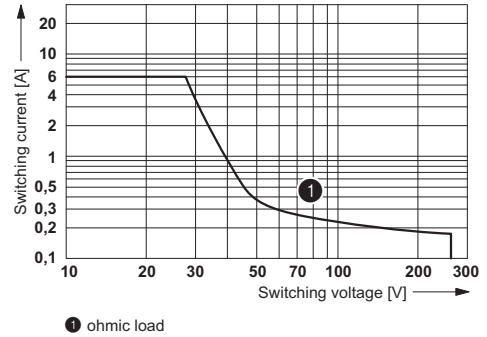
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Diagram



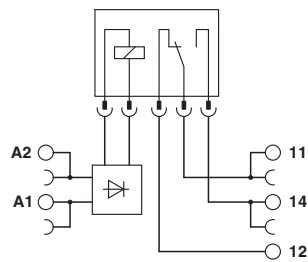
Electrical service life

Diagram



DC interrupting rating

Circuit diagram





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