

Solid-state relay module - PLC-OPT- 48DC/110DC/3RW - 2900393

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PLC-INTERFACE for railway applications, consisting of basic terminal block with push-in connection and integrated miniature solid-state relay, range: $0.7 \times U_N$ to $1.25 \times U_N$, temperature range: -25°C to $+70^\circ\text{C}$, 1 N/O contact, input: 48 V DC, output: 12 - 140 V DC/3 A

The figure shows a version with a screw connection

Product Features

- Shock resistance according to DIN 50155 (requirements according to EN 61373)
- Temperature range of -25°C to $+70^\circ\text{C}$
- Input voltage range of $0.7 - 1.25 \times U_N$



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 31.89 GRM |
| Custom tariff number | 85364190 |
| Country of origin | Germany |

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 | 86 mm |

Ambient conditions

| | |
|---------------------------------|--|
| Ambient temperature (operation) | $-25^\circ\text{C} \dots 70^\circ\text{C}$ |
|---------------------------------|--|

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Ambient conditions

| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection | IP20 |

Input data

| | |
|--|---|
| Nominal input voltage U_N | 48 V DC |
| Input voltage range in reference to U_N | 0.7 ... 1.25 ($t < 1 \text{ s} = 0.6 \dots 1.4 \times U_N$) |
| Switching threshold "0" signal in reference to U_N | < 0.3 |
| Switching threshold "1" signal in reference to U_N | > 0.6 |
| Typical input current at U_N | 5.5 mA |
| Typical response time | 40 μs |
| Typical turn-off time | 200 μs |
| Operating voltage display | Yellow LED |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Series polarity protection diode |
| Surge voltage protection | > 150 V |
| Transmission frequency | 300 Hz |

Output data

| | |
|--|--|
| Output nominal voltage | 110 V DC |
| Output voltage range | 12 V DC ... 140 V DC ($t < 1 \text{ s} = 1.40 \times U_N$) |
| Limiting continuous current | 3 A (see derating curve) |
| Surge voltage protection | > 150 V |
| Voltage drop at max. limiting continuous current | < 150 mV |
| Output circuit | 2-wire, floating |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Parallel polarity protection diode |

Connection data

| | |
|--|----------------------|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.14 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 26 |
| Conductor cross section AWG/kcmil max | 14 |

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Technical data

General

| | |
|---|---|
| Test voltage input/output | 2.5 kV _{rms} |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |
| Operating mode | 100% operating factor |
| Inflammability class according to UL 94 | V0 |
| Designation | Air and creepage distances between the power circuits |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Rated surge voltage / insulation | 4 kV / basic insulation |
| Rated insulation voltage | 160 V DC |
| Pollution degree | 2 |
| Surge voltage category | III |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001504 |
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121542 |
| UNSPSC 11 | 39121542 |
| UNSPSC 12.01 | 39121542 |
| UNSPSC 13.2 | 39121542 |

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Approvals

Approvals


Approvals

UL Listed / cUL Listed / UL Recognized / cUL Recognized / cULus Recognized / cULus Listed

Ex Approvals


Approvals submitted


Approval details

UL Listed 

cUL Listed 

UL Recognized 

cUL Recognized 

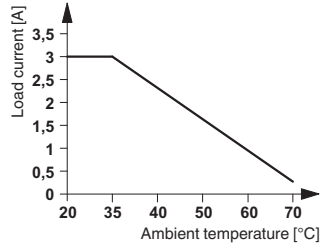
cULus Recognized 

cULus Listed 

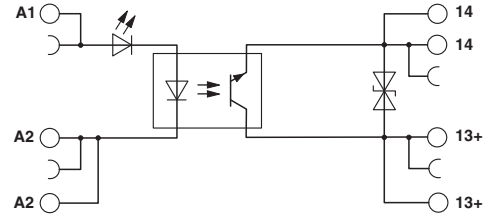
Drawings

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Diagram



Circuit diagram



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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