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Solid-state relay module - PLC-OPT-120UC/ 24DC/2 - 2900367

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 120 V AC/110 V DC, output: 3 - 33 V DC/3 A

Why buy this product

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed solid-state relay
- High switching power
- Integrated input circuit
- Functional plug-in bridges
- Zero voltage switch at AC output



Key Commercial Data

| | |
|--------------|---------------------|
| Packing unit | 10 STK |
| GTIN | 4 046356 506816 |

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) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

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Input data

| | |
|------------------------------------------------------|---------------------|
| Nominal input voltage U_N | 120 V AC (110 V DC) |
| | 110 V DC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Switching threshold "0" signal in reference to U_N | ≤ 0.3 |
| Switching threshold "1" signal in reference to U_N | ≥ 0.8 |
| Typical input current at U_N | 3.5 mA |
| Typical response time | 3.5 ms (at U_N) |
| Typical turn-off time | 7 ms (at U_N) |
| Operating voltage display | Yellow LED |
| Type of protection | Bridge rectifier |
| Protective circuit/component | Bridge rectifier |
| Transmission frequency | 10 Hz |

Output data

| | |
|--------------------------------------------------|--------------------------------------|
| Output voltage range | 3 V DC ... 33 V DC |
| Limiting continuous current | 3 A (see derating curve) |
| Maximum inrush current | 15 A (10 ms) |
| Voltage drop at max. limiting continuous current | ≤ 200 mV |
| Output circuit | 2-wire, floating |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |

Connection data, input side

| | |
|----------------------------------|----------------------------------------------|
| Connection name | Input 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 |

Connection data, output side

| | |
|----------------------------------|----------------------------------------------|
| Connection name | Output 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 input/output | 2.5 kV (50 Hz, 1 min.) |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

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Technical data

General

| | |
|----------------------------------------|-----------------------|
| Operating mode | 100% operating factor |
| Flammability rating according to UL 94 | V0 |
| Degree of pollution | 2 |
| Overvoltage category | III |

Standards and Regulations

| Standard designation | Standards/regulations |
|----------------------------------------|-----------------------|
| Standards/regulations | IEC 60664 |
| | IEC 60664A |
| | DIN VDE 0110 |
| Connection in acc. with standard | CUL |
| Flammability rating according to UL 94 | V0 |

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 | 27371604 |

ETIM

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

UNSPSC

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

Approvals

Approvals

Solid-state relay module - PLC-OPT-120UC/ 24DC/2 - 2900367

Approvals

Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Recognized

UL Listed

cUL Recognized

cUL Listed

GL

EAC

EAC

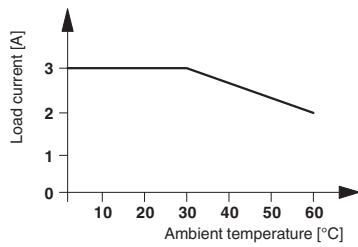
cULus Recognized

cULus Listed

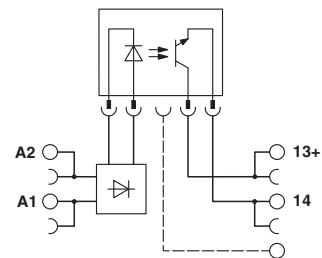
Drawings

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Diagram



Circuit diagram



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| Product | Code | Reference | Product link |
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