

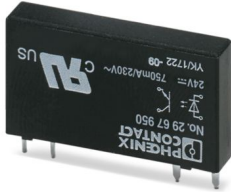
OPT-24DC/230AC/ 1 - Miniature solid-state relay



2967950

<https://www.phoenixcontact.com/us/products/2967950>

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Your advantages

- Vibration and shock resistant
- RT III-proof (wash-proof)
- Wear-free and durable
- Can be soldered on PCB
- Zero voltage switch at AC output

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2967950 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | CK61F3 |
| Catalog page | Page 287 (C-5-2019) |
| GTIN | 4017918190538 |
| Weight per piece (including packing) | 5.75 g |
| Weight per piece (excluding packing) | 5.75 g |
| Customs tariff number | 85364110 |
| Country of origin | JP |

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Technical data

Product properties

| | |
|----------------|--------------------------|
| Product type | Single solid-state relay |
| Operating mode | 100% operating factor |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

Insulation characteristics: Standards/regulations

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|---|--------------------------------------|
| Maximum power dissipation for nominal condition | 0.07 W |
| Test voltage (Input/output) | 2.5 kV (50 Hz, 1 min., input/output) |

Input data

| | |
|---|-------------------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.2 |
| Input voltage range | 19.2 V DC ... 28.8 V DC |
| Switching threshold "0" signal, voltage | ≤ 8.4 V |
| Switching threshold "1" signal voltage | ≥ 18 V |
| Typical input current at U_N | 6.6 mA |
| Typical response time | 10 ms (at U_N) |
| Typical turn-off time | 10 ms (at U_N) |
| Transmission frequency | 10 Hz |

Output data

| | |
|--|---|
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |
| Output voltage range | 24 V AC ... 253 V AC |
| Limiting continuous current | 0.75 A (see derating curve) |
| Maximum inrush current | 30 A (10 ms) |
| Min. load current | 10 mA |
| Leakage current | < 1 mA |
| Phase angle $\cos \phi$ min | 0.5 |
| Max. load value | $4.5 A^2s$ |
| Voltage drop at max. limiting continuous current | < 1 V |
| Output circuit | 2-conductor floating, zero voltage switch |
| Protective circuit | RCV circuit; RCV circuit |

Dimensions

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| | |
|---------------------|-------|
| Dimensional drawing | |
| Width | 5 mm |
| Height | 28 mm |
| Depth | 15 mm |

Material specifications

| | |
|-------|------------------|
| Color | black (RAL 9005) |
|-------|------------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | RT III |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

Approvals

Corrosive gas test

| | |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

Standards and regulations

Standards/regulations

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

Mounting

| | |
|-----------------------|---------------------------|
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371604 |
| ECLASS-12.0 | 27371604 |
| ECLASS-13.0 | 27371604 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001504 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com