

PLC-OSC- 5DC/ 24DC/100KHZ-G - Solid-state relay module



2902967

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Input solid-state relay, with DC voltage output push-pull, transmission frequency: 100 kHz, with light indicator and protective circuit in input and output circuits, input: 5 V DC, output: 14 - 30 V DC/50 mA

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2902967 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | CK6 |
| Product Key | CK6215 |
| Catalog Page | Page 413 (C-5-2019) |
| GTIN | 4046356702034 |
| Weight per Piece (including packing) | 44.8 g |
| Weight per Piece (excluding packing) | 36.53 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

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Technical Data

Product properties

| | |
|----------------|---------------------------|
| Product type | Solid-state relay module |
| Product family | PLC-INTERFACE |
| Application | 100 kHz input optocoupler |
| Operating mode | 100% operating factor |

Insulation characteristics

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

Insulation characteristics: Air clearances and creepage distances between the power circuits

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

Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.04 W |
| Test voltage (Input/output) | 2.5 kV _{rms} (50 Hz, 1 min., input/output) |

Air clearances and creepage distances between the power circuits

| | |
|--------------------------|---------|
| Rated insulation voltage | 50 V DC |
| Rated surge voltage | 0.5 kV |

Input data

| | |
|--|---|
| Nominal input voltage U_N | 5 V DC |
| Input voltage range in reference to U_N | 0.5 ... 1.2 |
| Input voltage range | 2.5 V DC ... 6 V DC |
| Switching threshold "0" signal in reference to U_N | < 0.3 |
| Switching threshold "1" signal in reference to U_N | > 0.5 |
| Typical input current at U_N | 8 mA |
| Typical response time | 1 μ s |
| Typical turn-off time | 2 μ s |
| Operating voltage display | Yellow LED |
| Protective circuit | Reverse polarity protection Surge protection |
| Surge voltage protection | > 14 V |
| Transmission frequency | 100 kHz |

Output data

| | |
|-----------------------------|---------------------|
| Designation | Output data |
| Contact type | 1 N/O contact |
| Design of digital output | electronic |
| Output voltage range | 14 V DC ... 30 V DC |
| Limiting continuous current | 50 mA |

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| | |
|--|---|
| Quiescent current | 15 mA |
| Surge voltage protection | > 35 V |
| Voltage drop at max. limiting continuous current | < 2.2 V |
| Output circuit | 3-conductor push-pull, ground referenced |
| Protective circuit | Reverse polarity protection Surge protection |

Connection data

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² 0.2 mm ² ... 2.5 mm ² (Single ferrule) 2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule) |
| Conductor cross section AWG | 26 ... 14 |
| Tightening torque | 0.6 Nm ... 0.8 Nm |

Dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 86 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 75 °C |

Approvals

Corrosive gas test

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

Standards and regulations

Air clearances and creepage distances between the power circuits

| | |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

Mounting

| | |
|-----------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

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