

PLC-HSC-24DC/230AC/10 - Solid-state relays



2905214

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PLC-INTERFACE, hybrid solid-state relay incl. bypass relay with screw connection, for mounting on NS 35/7,5 DIN rail, input: 24 V DC, output: 24 V AC - 253 V AC/10 A

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2905214 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | CK6 |
| Product Key | CK6216 |
| Catalog Page | Page 385 (C-5-2019) |
| GTIN | 4046356927567 |
| Weight per Piece (including packing) | 80.29 g |
| Weight per Piece (excluding packing) | 73.6 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

Technical Data

Product properties

| | |
|----------------|--------------------------|
| Product type | Solid-state relay module |
| Product family | PLC-INTERFACE |
| Application | Output function |
| Operating mode | 100% operating factor |

Insulation characteristics

| | |
|------------|----------------|
| Insulation | safe isolation |
|------------|----------------|

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

| | |
|----------------------|----------------|
| Insulation | safe isolation |
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|--------------|------------------------------------------------------|
| Test voltage | 4 kV _{rms} (50 Hz, 1 min., winding/contact) |
|--------------|------------------------------------------------------|

Air clearances and creepage distances between the power circuits

| | |
|--------------------------|----------|
| Rated insulation voltage | 260 V AC |
| Rated surge voltage | 6 kV |

Input data

| | |
|------------------------------------------------------|-------------------------------------------------|
| Rated control circuit supply voltage U_S | 24 V DC |
| Voltage range with reference to U_S | 0.8 ... 1.2 |
| Rated control supply current I_S | ≤ 19 mA |
| Rated actuating voltage U_C | 24 V DC |
| Voltage range with reference to U_C | 0.8 ... 1.2 |
| Rated actuating current I_C | 6.8 mA |
| "0" signal switching threshold in reference to U_C | < 0.4 |
| "1" signal switching threshold in reference to U_C | > 0.8 |
| Typical response time | 30 ms |
| Typical turn-off time | 20 ms |
| Status display | Yellow LED |
| Protective circuit | Reverse polarity protection Surge protection |
| Surge voltage protection | > 33 V DC |
| Transmission frequency | 1 Hz |

Output data

| | |
|--------------------------|---------------------------------|
| Designation | AC hybrid output |
| Contact type | 1 N/O contact |
| Design of digital output | electronic |
| Output voltage range | 24 V AC ... 253 V AC (50/60 Hz) |

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| | |
|-----------------------------|---------------------------------------------|
| Limiting continuous current | 10 A (see derating curve) |
| Min. load current | 100 mA |
| Leakage current | < 1 mA |
| Surge current | 250 A (tp = 20 ms, at 25°C) |
| Max. load value | 350 A ² s (tp = 10 ms, at 25 °C) |
| Surge voltage protection | > 275 V |
| Output circuit | 2-conductor, floating |
| Protective circuit | Varistor |

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 | 14 mm |
| Height | 80 mm |
| Depth | 94 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------------------------------|------------------------------|
| Degree of protection (Relay base) | IP20 (Relay base) |
| Degree of protection (Relay) | RT II (Relay) |
| Degree of protection (Installation location) | IP54 (Installation location) |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | ≤ 2000 m |

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 |
|-----------------------|---------------|

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Mounting

| | |
|-----------------------|--------------------|
| Mounting type | DIN rail mounting |
| Assembly instructions | See derating curve |
| Mounting position | any |

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