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Relay terminal block, with soldered-in miniature power relay, contacts (AgSnO): medium to large loads, 1 PDT, input voltage 24 V DC, for assembly on NS 35/7.5, terminal width 6.2 mm

Your advantages

- ✓ Just 6.2 mm wide
- Cadmium-free relay contacts

- ✓ Safe isolation according to DIN EN 50178 (VDE 0160)
- Relay housing with IP67 protection
- 4 kV electrical isolation between input and output



Key Commercial Data

| Packing unit | 1 pc |
|--------------------------------------|-----------------|
| GTIN | 4 017918 117733 |
| GTIN | 4017918117733 |
| Weight per Piece (excluding packing) | 28.000 g |
| Custom tariff number | 85364190 |
| Country of origin | China |

Technical data

Note



Technical data

Note

| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|
| Type of note | Note on application |
| Note | Use of EB 80-DIK bridges in the DEK terminal blocks: Absorption of humidity from the ambient air as well as an unfavorable tolerance between a larger number of DEK terminal blocks and the EB 80-DIK bridge may cause (minor) expansion of the DEK housing. When the EB 80-DIK bridges are used, therefore, it is recommended that these be disconnected after about 10 to 12 DEK terminal blocks and a wire bridge to the next DEK terminal block be inserted in their place. |

Dimensions

| Width | 6.2 mm |
|--------|--------|
| Height | 80 mm |
| Depth | 56 mm |

Ambient conditions

| Ambient temperature (operation) | -20 °C 50 °C |
|---|--------------|
| Ambient temperature (storage/transport) | -20 °C 70 °C |

Coil side

| Nominal input voltage U _N | 24 V DC |
|--|---|
| Input voltage range in reference to U _N | 0.8 1.1 |
| Typical input current at U _N | 9 mA |
| Typical response time | 8 ms |
| Typical release time | 5 ms |
| Protective circuit | Reverse polarity protection Polarity protection diode |
| | Free-wheeling diode Damping diode |
| Operating voltage display | Yellow LED |
| Power dissipation for nominal condition | 0.22 W |

Contact side

| Contact type | 1 PDT |
|---------------------------------------|--------------------|
| Type of switch contact | Single contact |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V AC/DC |
| Min. switching current | 10 mA |
| Maximum inrush current | 6 A |
| Limiting continuous current | 6 A |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 20 W (at 48 V DC) |



Technical data

Contact side

| | 18 W (at 60 V DC) |
|--------------------|------------------------|
| | 23 W (at 110 V DC) |
| | 40 W (at 220 V DC) |
| | 1500 VA (for 250 V AC) |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 0.2 A (at 110 V, DC13) |
| | 0.1 A (at 220 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 A (at 230 V, AC15) |

General

| Test voltage relay winding/relay contact | 4 kV AC (50 Hz, 1 min.) |
|--|--------------------------------|
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 10 ⁷ cycles |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

Connection data

| Connection name | Coil side |
|----------------------------------|------------------|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm² 2.5 mm² |
| Conductor cross section flexible | 0.2 mm² 2.5 mm² |
| Conductor cross section AWG | 24 14 |
| Torque | 0.5 Nm |

Connection data 2

| Connection name | Contact side |
|----------------------------------|------------------|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm² 2.5 mm² |
| Conductor cross section flexible | 0.2 mm² 2.5 mm² |
| Conductor cross section AWG | 24 14 |
| Torque | 0.5 Nm |

Standards and Regulations



Technical data

Standards and Regulations

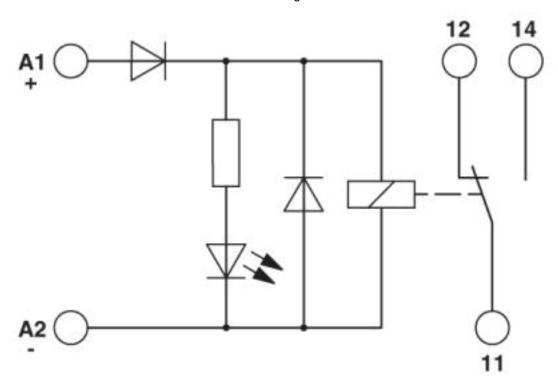
| Connection in acc. with standard | CUL |
|----------------------------------|---|
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| Rated insulation voltage | 250 V |
| Rated surge voltage | 6 kV |
| Insulation | Safe isolation: Control side / contact side |
| Pollution degree | 2 |
| Overvoltage category | III |

Environmental Product Compliance

| | Lead 7439-92-1 |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Circuit diagram





Classifications

eCl@ss

| eCl@ss 4.0 | 27371100 |
|------------|----------|
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371600 |
| eCl@ss 5.1 | 27371600 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

ETIM

| ETIM 2.0 | EC001437 |
|----------|----------|
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |
| ETIM 6.0 | EC001437 |
| ETIM 7.0 | EC001437 |

UNSPSC

| UNSPSC 6.01 | 30211916 |
|---------------|----------|
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11 | 39121515 |
| UNSPSC 12.01 | 39121515 |
| UNSPSC 13.2 | 39122334 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details



c **FL**us

Approvals

| UL Recognized | <i>7</i> . | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|----------------|-------------|--|-----------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| | . FL | , the management of the second | |
| EAC | ERC | | TR_TS_D_00573_c |
| | | | |
| EAC | ERE | | TR_TS_S_00010_c |
| | | | |

Accessories

cULus Recognized

Accessories

Insertion bridge

Insertion bridge - EB 2- DIK RD - 2716693



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: red

Insertion bridge - EB 3- DIK RD - 2716745



Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: red



Accessories

Insertion bridge - EB 4- DIK RD - 2716758



Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: red

Insertion bridge - EB 5- DIK RD - 2716761



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: red

Insertion bridge - EB 10- DIK RD - 2716774



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: red

Insertion bridge - EB 2- DIK BU - 2716648



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: blue

Insertion bridge - EB 3- DIK BU - 2716651



Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: blue



Accessories

Insertion bridge - EB 4- DIK BU - 2716664



Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: blue

Insertion bridge - EB 5- DIK BU - 2716677



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: blue

Insertion bridge - EB 10- DIK BU - 2716680



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: blue

Insertion bridge - EB 80- DIK BU - 2715940



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: blue

Insertion bridge - EB 80- DIK RD - 2715953



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: red



Accessories

Insertion bridge - EB 80- DIK WH - 2715788



Insertion bridge, pitch: 6.15 mm, number of positions: 80, color: white

Labeled terminal marker

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Partition plate

Separating plate - D-DEK 1,5 GN - 2716949



Cover for setting the end of a terminal row, color: green

Sensor/actuator terminal block

Sensor/actuator terminal block - DIKD 1,5 - 2715979



Sensor/actuator terminal block, connection method: Screw connection, cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, width: 6.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Terminal marking



Accessories

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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