

2982100

https://www.phoenixcontact.com/in/products/2982100

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/5 A

Your advantages

- · Vibration and shock resistant
- RT III-proof (wash-proof)
- · Wear-free and durable
- · Zero voltage switch at AC output
- Switching power of up to 24 V DC/5 A
- Can be soldered on PCB

Commercial data

| Item number | 2982100 |
|--------------------------------------|---------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | CK6 |
| Product key | CK69L1 |
| Catalog page | Page 296 (C-5-2019) |
| GTIN | 4017918937492 |
| Weight per piece (including packing) | 11.65 g |
| Weight per piece (excluding packing) | 11.65 g |
| Customs tariff number | 85364190 |
| Country of origin | HU |



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Technical data

Product properties

| Product type | Single solid-state relay | |
|--|--------------------------|--|
| Operating mode | 100% operating factor | |
| ata management status | | |
| Date of last data management | 11.07.2024 | |
| Article revision | 02 | |
| Article revision | 03 | |
| nsulation characteristics: Standards/regulations | 05 | |
| | Basic insulation | |
| nsulation characteristics: Standards/regulations | | |

Electrical properties

| Maximum power dissipation for nominal condition | 0.17 W |
|---|--------------------------------------|
| Test voltage (Input/output) | 2.5 kV (50 Hz, 1 min., input/output) |
| Standards/regulations | |
| Rated insulation voltage | 100 V DC |

Input data

| Nominal input voltage U _N | 24 V DC |
|---|--|
| Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$ | 0.8 1.2 |
| Input voltage range | 19.2 V DC 28.8 V DC |
| Switching threshold "0" signal in reference to \boldsymbol{U}_{N} | 0.4 |
| Switching threshold "1" signal in reference to U_N | 0.7 |
| Typical input current at U _N | 7 mA |
| Typical response time | 20 μs |
| Typical turn-off time | 400 µs |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| Transmission frequency | 300 Hz |

Output data

| Contact switching type | 1 N/O contact |
|--|--|
| Design of digital output | electronic |
| Output nominal voltage | 24 V DC |
| Output voltage range | 3 V DC 33 V DC |
| Limiting continuous current | 5 A (see derating curve) |
| Maximum inrush current | 15 A (10 ms) |
| Surge voltage protection | > 33 V DC |
| Voltage drop at max. limiting continuous current | ≤ 200 mV |
| Output circuit | 2-conductor, floating |
| Protective circuit | Reverse polarity protection; Polarity protection diode |



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Assembly note

| | Surge protection |
|--|----------------------------|
| imensions | |
| Dimensional drawing | 29 |
| Width | 12.7 mm |
| Height | 29 mm |
| Depth | 15.7 mm |
| laterial specifications | |
| Color | black (RAL 9005) |
| Flammability rating according to UL 94 | V0 (Housing) |
| Ambient conditions Degree of protection | RT III |
| Ambient temperature (operation) | -25 °C 60 °C |
| Ambient temperature (storage/transport) | -25 °C 70 °C |
| pprovals | |
| Corrosive gas test | |
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |
| tandards and regulations | |
| Standards/regulations | |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| lounting | |
| | |

in rows with zero spacing

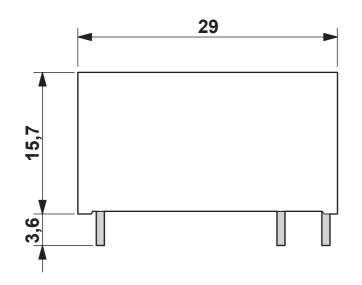


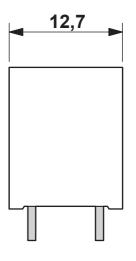
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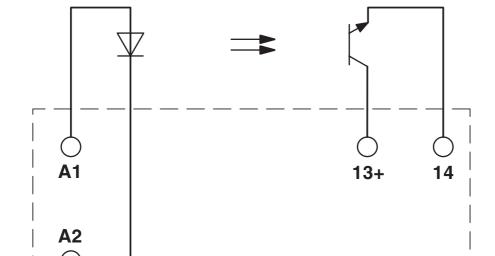
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Drawings

Dimensional drawing





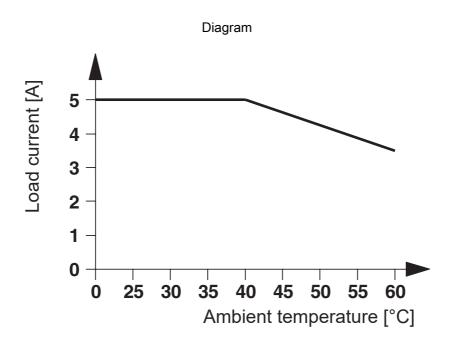


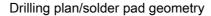
Circuit diagram

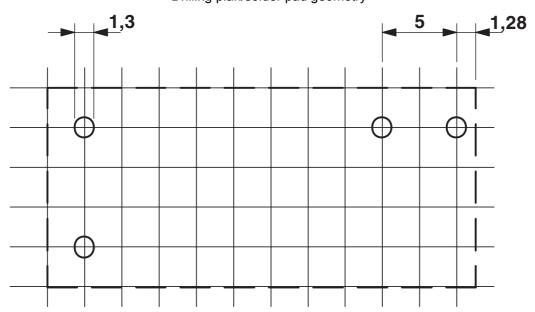


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Basic pitch 2.5 mm



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/2982100



cUL Recognized

Approval ID: FILE E 195083



UL Recognized

Approval ID: FILE E 195083



EAC

Approval ID: TR_TS_D_00573_c



UL Recognized

Approval ID: FILE E 195083



EAC

Approval ID: RU*C-DE.*08.B.00010



cUL Recognized

Approval ID: FILE E 195083



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Classifications

ECLASS

| | ECLASS-11.0 | 27371604 | |
|--------|-------------|----------|--|
| | ECLASS-12.0 | 27371604 | |
| | ECLASS-13.0 | 27371604 | |
| ET | ETIM | | |
| | ETIM 9.0 | EC001504 | |
| UNSPSC | | | |
| | UNSPSC 21.0 | 39122300 | |



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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|--|
| Exemption | 7(c)-l |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |



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Mandatory accessories

PLC-BPT- 24DC/21-21 - Relay base

2900283

https://www.phoenixcontact.com/in/products/2900283



14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC

PLC-BSC- 24DC/21-21 - Relay base

2967015

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14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC



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PLC-BPT- 24DC/ 1IC/ACT - Relay base

2900260

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14 mm PLC basic terminal block for high switch-on currents with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

PLC-BSC- 24DC/ 1IC/ACT - Relay base

2967837

https://www.phoenixcontact.com/in/products/2967837



14 mm PLC basic terminal block for high switch-on currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC



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PLC-BPT- 24DC/21HC - Relay base

2900254

https://www.phoenixcontact.com/in/products/2900254



14 mm PLC basic terminal block for high continuous currents with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

PLC-BSC- 24DC/21HC - Relay base

2967772

https://www.phoenixcontact.com/in/products/2967772



14 mm PLC basic terminal block for high continuous currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC



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RIF-1-BPT/2X21 - Relay base

2900931

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Relay base RIF-1..., for miniature power relay with 1 or 2 changeover contacts or solid-state relays of the same design, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

RIF-1-BSC/2X21 - Relay base

2900930

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RIF-1... relay base, for miniature power relay with 1 or 2 changeover contacts or identical solid-state relays, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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