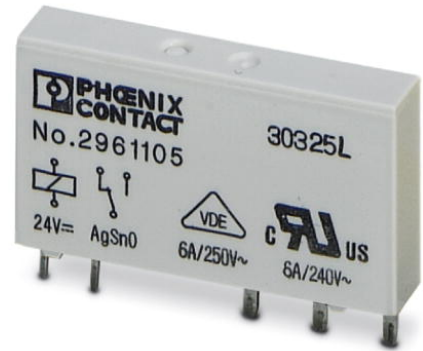


REL-MR- 24DC/21


Order No.: 2961105



<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2961105>

Pluggable miniature relays, with power contact, 1 PDT, input voltage 24 V DC

Commercial data

| | |
|--------------------------|---|
| EAN |  4 017918 130893 |
| Pack | 10 Pcs. |
| Customs tariff | 85364190 |
| Product key | CK6195 |
| Catalog page information | Page 98 (IF-2011) |

Product notes

WEEE/RoHS-compliant since:
06/01/2005



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Coil side

| | |
|-----------------------------------|-----------------------------------|
| Nominal input voltage U_N | 24 V DC |
| Nominal input current at U_{IN} | 7 mA |
| Typical response time | 5 ms |
| Typical release time | 2.5 ms |
| Coil resistance | 3390 Ω \pm 10% (at 20°C) |

Contact side

| | |
|---------------------------------------|------------------------|
| Contact type | Single contact, 1-PDT |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 100 mA) |
| Maximum inrush current | (on request) |
| Min. switching current | 10 mA (at 12 V) |
| Limiting continuous current | 6 A |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 20 W (for 48 V DC) |
| | 18 W (for 60 V DC) |
| | 23 W (for 110 V DC) |
| | 40 W (for 220 V DC) |
| | 1500 VA (for 250 V AC) |

General data

| | |
|--|----------------------------|
| Width | 5 mm |
| Height | 28 mm |
| Depth | 15 mm |
| Test voltage relay winding/relay contact | 4 kV AC (50 Hz, 1 min.) |
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Operating mode | 100% operating factor |
| Mechanical service life | 2 x 10 ⁷ cycles |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Pollution degree | 3 |
| Surge voltage category | III |
| Mounting position | Any |
| Assembly instructions | In rows with zero spacing |

Connection data

| | |
|-------------------|--------------------------|
| Connection method | Plug / solder connection |
|-------------------|--------------------------|

Certificates / Approvals



Certification

CUL, GL, GOST, UL, VDE-PZI, VDE-PZI

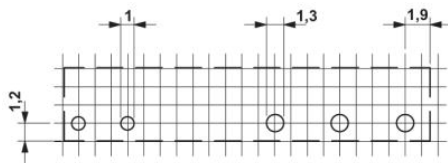
Additional products

| Item | Designation | Description |
|-------------------|-----------------------|--|
| General | | |
| 2900450 | PLC-BPIT- 24UC/ 1/ACT | PLC-BPIT-24UC/1/ACT basic terminal block for assembly with pluggable OPT-24DC... solid-state relays or REL-MR-24DC... mechanical relays. All connections of actuators, i.e., the load return lines can be directly connected to the PLC actuator terminal block. |
| 2900262 | PLC-BPT- 24DC/ 1/SEN | 6.2 mm PLC sensor basic terminal blocks with Push-In connection method, input voltage of 24 V DC (without relay or optocoupler) |
| 2900445 | PLC-BPT- 24DC/21 | 6.2 mm PLC basic terminal blocks with Push-In connection method, input voltage of 24 V DC (without relay or optocoupler) |
| 2900446 | PLC-BPT- 24UC/21 | 6.2 mm PLC basic terminal blocks in Push-In connection method, input voltage of 24 V AC/DC (without relay or optocoupler) |
| 2900447 | PLC-BPT- 48DC/21 | 6.2 mm PLC basic terminal blocks with Push-In connection method, input voltage 48 V DC (without relay or optocoupler) |
| 2980458 | PLC-BSC- 24DC/21/SO46 | 6.2 mm PLC basic terminal blocks with screw connection method and integrated filter against interference voltages and currents on the control side, input voltage 24 V DC (without relay or optocoupler) |
| 2982799 | PLC-BSC- 24UC/ 1/ACT | PLC-BS...-24UC/1/ACT basic terminal block for assembly with pluggable OPT-24DC... solid-state relays or mechanical REL-MR-24DC... relays. All connections of actuators, i.e. the load return lines can be directly connected to the PLC actuator terminal block. |
| 2982809 | PLC-BSP- 24UC/ 1/ACT | PLC-BS...-24UC/1/ACT basic terminal block for assembly with pluggable OPT-24DC... solid-state relays or mechanical REL-MR-24DC... relays. All connections of actuators, i.e. the load return lines can be directly connected to the PLC actuator terminal block. |
| Relay base | | |
| 2966061 | PLC-BSC- 24DC/ 1/SEN | 6.2 mm PLC Sensor basic terminal blocks with screw connection method, input voltage 24 V DC (without relay or optocoupler) |
| 2966016 | PLC-BSC- 24DC/21 | 6.2 mm PLC basic terminal blocks with screw connection method, input voltage 24 V DC (without relay or optocoupler) |

| | | |
|---------|----------------------|---|
| 2966029 | PLC-BSC- 24UC/21 | 6.2 mm PLC basic terminal blocks with screw connection method, input voltage 24 V AC/DC(without relay or optocoupler) |
| 2966964 | PLC-BSC- 36DC/21 | Basic terminal block |
| 2966090 | PLC-BSC- 48DC/21 | 6.2 mm PLC basic terminal blocks with screw connection method, input voltage 48 V DC(without relay or optocoupler) |
| 2967206 | PLC-BSP- 24DC/ 1/SEN | 6.2 mm PLC Sensor basic terminal blocks with spring-cage connection method, input voltage 24 V DC(without relay or optocoupler) |
| 2967219 | PLC-BSP- 24DC/21 | 6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 24 V DC(without relay or optocoupler) |
| 2967222 | PLC-BSP- 24UC/21 | 6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 24 V AC/DC(without relay or optocoupler) |
| 2967329 | PLC-BSP- 48DC/21 | 6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 48 V DC(without relay or optocoupler) |

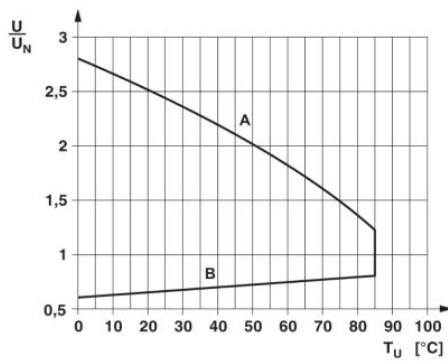
Drawings

Drilling plan/solder pad geometry

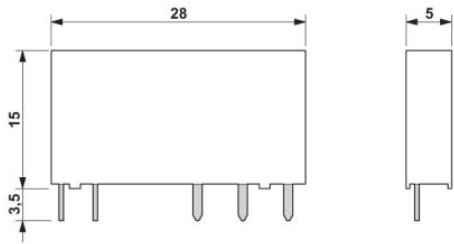


a = pitch division 1.25 mm and 1.27 mm

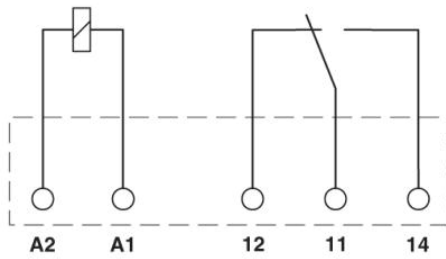
Diagram



Dimensioned drawing



Circuit diagram



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