

REL-MR- 12DC/21-21

Order No.: 2961257



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2961257>

Pluggable miniature relays, with power contact, 2 PDT, input voltage 12 V DC

| Commercial data | |
|--------------------------|-------------------|
| EAN | 4017918163525 |
| Pack | 10 pcs. |
| Customs tariff | 85364190 |
| Weight/Piece | 0.01543 KG |
| Catalog page information | Page 54 (IF-2009) |

Product notes

WEEE/RoHS-compliant since:
03/27/2006



<http://www.download.phoenixcontact.com>
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Technical data

| Coil side | |
|---|------------------------|
| Nominal input voltage U_N | 12 V DC |
| Input voltage range in reference to U_N | (refer to the diagram) |
| Nominal input current at U_{IN} | 33 mA |
| Typical response time | 7 ms |

| | |
|----------------------|-----------------------|
| Typical release time | 3 ms |
| Coil resistance | 360 Ω ± 10% (at 20°C) |

Contact side

| | |
|---------------------------------------|------------------------|
| Contact type | Single contact, 2-PDT |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V |
| Maximum inrush current | 15 A (300 ms) |
| Min. switching current | 10 mA |
| Limiting continuous current | 8 A |
| Interrupting rating (ohmic load) max. | 190 W (for 24 V DC) |
| | 85 W (for 48 V DC) |
| | 60 W (for 60 V DC) |
| | 44 W (for 110 V DC) |
| | 60 W (for 220 V DC) |
| | 2000 VA (for 250 V AC) |

General data

| | |
|--|---|
| Width | 12.7 mm |
| Height | 15.7 mm |
| Depth | 29 mm |
| Test voltage relay winding/relay contact | 5 kV AC (50 Hz, 1 min) |
| Test voltage relay contact/relay contact | 2.5 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 |
| Service life mechanical | 3 x 10 ⁷ cycles |
| Standards/regulations | IEC 60664 |
| | IEC 60664 A |
| | DIN VDE 0110 |
| | DIN VDE 0106-101 |
| | DIN EN 50178/DIN VDE 0160 (in relevant parts) |
| | IEC 60255/DIN VDE 0435 (in relevant parts) |
| | EN 60730/DIN VDE 0631 |
| Pollution degree | 3 |

| | |
|------------------------|--|
| Surge voltage category | III |
| Mounting position | Any |
| Assembly instructions | Can be aligned without spacing ($> 70\text{ °C} \geq 2.5\text{ mm}$) |

Certificates / Approvals



Certification

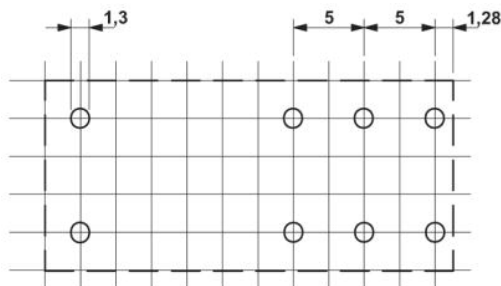
CUL, GL, GOST, UL, VDE-PZI

Additional products

| Item | Designation | Description |
|----------------|---------------------|--|
| General | | |
| 2967251 | PLC-BSC- 12DC/21-21 | 14 mm PLC basic terminal blocks with screw connection method, input voltage 12 V DC(without relay or optocoupler) |
| 2912426 | PLC-BSP- 12DC/21-21 | 14 mm PLC basic terminal blocks with spring-cage connection method, input voltage 12 V DC(without relay or optocoupler) |
| 2833518 | PR1-BSC2/2X21 | Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 2/2 level design, screw connections, connection facility for input/interference suppression modules |
| 2833521 | PR1-BSC3/2X21 | Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules |
| 2833534 | PR1-BSP3/2X21 | Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, spring-cage connections, connection facility for input/interference suppression modules |

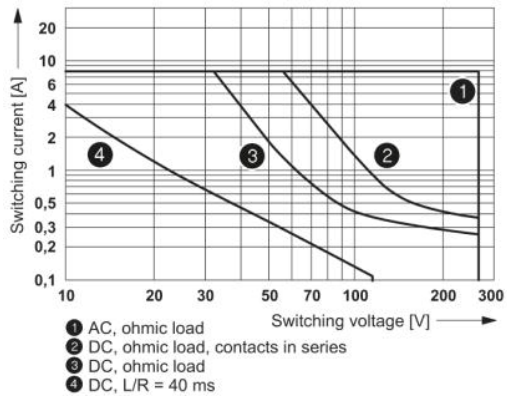
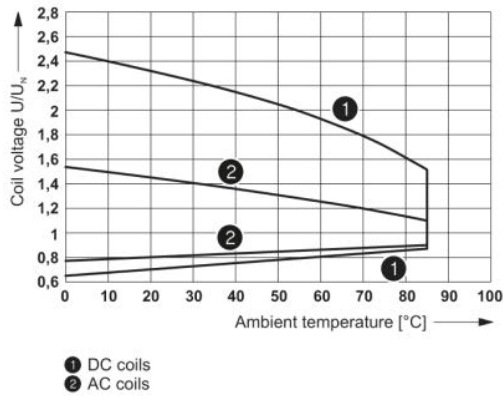
Diagrams/Drawings

Drilling plan/solder pad geometry

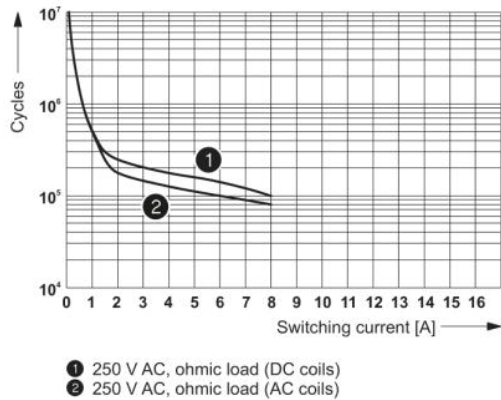


a = pitch division 2.5 mm

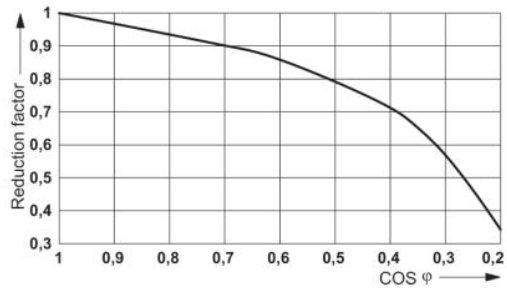
Diagram



Operating voltage range



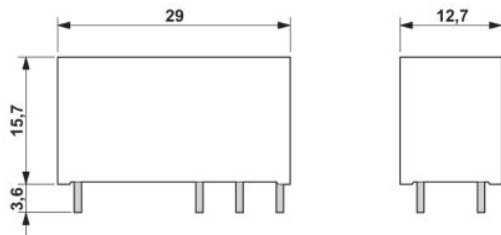
Interrupting rating



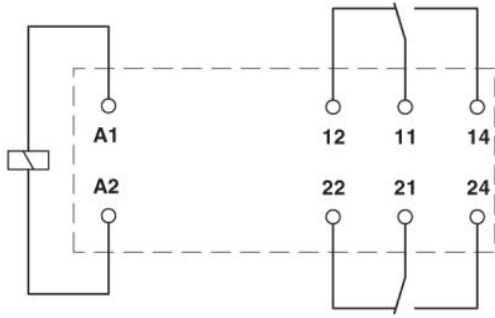
Service life reduction factor with various cos phi

Electrical service life

Dimensioned drawing



Circuit diagram



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