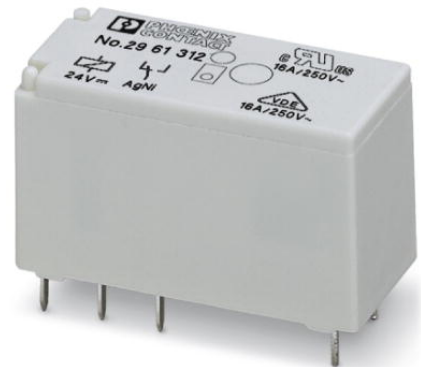



REL-MR- 24AC/21HC

Order No.: 2961406



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2961406>

Pluggable miniature relays, with power contact for high continuous current, 1 PDT, input voltage 24 V AC

| Commercial data | |
|--------------------------|---|
| GTIN (EAN) |  4 017918 937812 |
| Note | Made-to-order |
| sales group | G084 |
| Pack | 10 pcs. |
| Customs tariff | 85364190 |
| Catalog page information | Page 60 (IF-2011) |

Product notes

WEEE/RoHS-compliant since:
07/27/2006



<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 AC |
| Input voltage range in reference to U_N | (refer to the diagram) |
| Nominal input current at U_{IN} | 32 mA (50 Hz) |
| | 24 mA (60 Hz) |

| | |
|----------------------------|--|
| Typical response time | 3 ms ... 12 ms (depending on phase relation) |
| Typical release time range | 2 ms ... 9 ms (depending on phase relation) |
| Coil resistance | 350 Ω ±10 % (at 20°C) |

Contact side

| | |
|---------------------------------------|------------------------|
| Contact type | Single contact, 1-PDT |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V AC/DC (at 10 mA) |
| Maximum inrush current | 30 A (300 ms) |
| Min. switching current | 100 mA |
| Limiting continuous current | 16 A |
| Interrupting rating (ohmic load) max. | 384 W (at 24 V DC) |
| | 58 W (for 48 V DC) |
| | 48 W (for 60 V DC) |
| | 50 W (for 110 V DC) |
| | 80 W (for 220 V DC) |
| | 4000 VA (for 250 V AC) |

General data

| | |
|--|---|
| Width | 12.7 mm |
| Height | 29 mm |
| Depth | 15.7 mm |
| Test voltage relay winding/relay contact | 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 |
| Mechanical service life | 3 x 10 ⁷ cycles |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Pollution degree | 3 |
| Surge voltage category | III |
| Mounting position | Any |
| Assembly instructions | Can be aligned without spacing (> 70 °C ≥ 2.5 mm) |

Certificates / Approvals



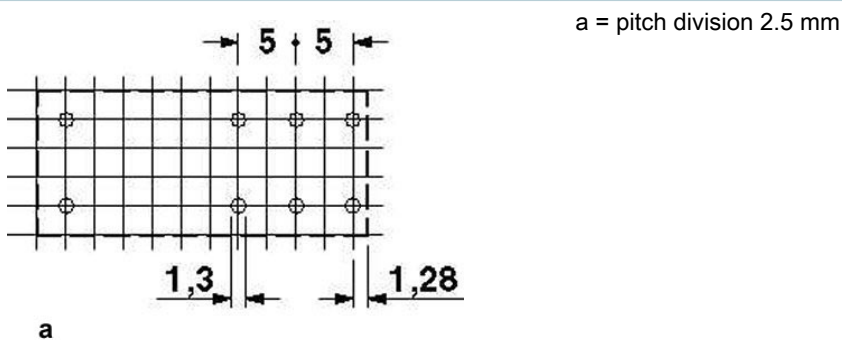
Certification CUL, UL, VDE-PZI

Additional products

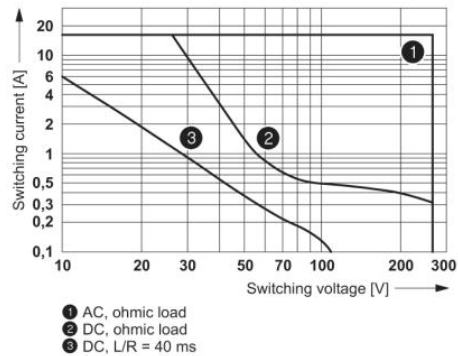
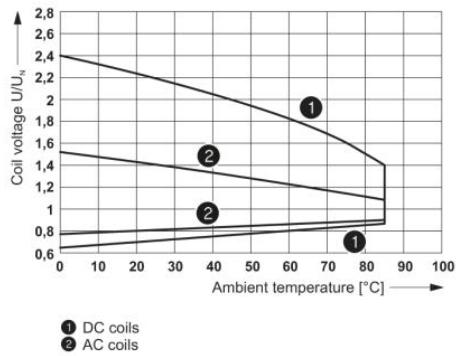
| Item | Designation | Description |
|----------------|---------------|--|
| General | | |
| 2833518 | PR1-BSC2/2X21 | Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 2/2 level design, screw connections, connection 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

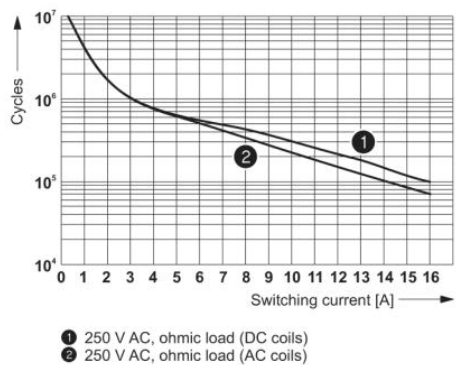
Drilling plan/solder pad geometry



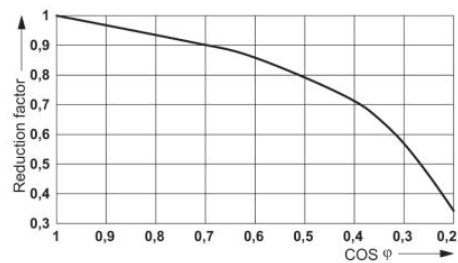
Diagram



Operating voltage range



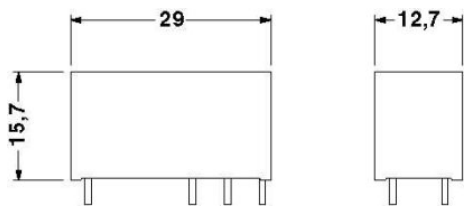
Interrupting rating



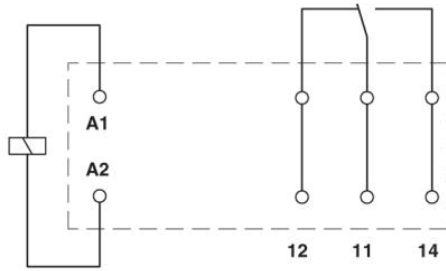
Service life reduction factor with various cos phi

Electrical service life

Dimensioned drawing



Circuit diagram



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