


PR1-RSP3-LV-120AC/21

Order No.: 2834423



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2834423>

Preassembled relay modules with spring-cage connection, consisting of: Relay socket plug-in miniature power relay with power contacts, plug-in display/interference suppression module and relay retaining bracket. Input voltage: 120 V AC, contacts: 1 PDT, 10 A

| Commercial data | |
|--------------------------|--|
| GTIN (EAN) |  4 046356 044318 |
| Note | Made-to-order |
| sales group | G310 |
| Pack | 5 pcs. |
| Customs tariff | 85364900 |
| Catalog page information | Page 76 (IF-2011) |

Product notes

WEEE/RoHS-compliant since:
08/22/2006



<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 | 120 V AC |
| Nominal input current at U_{IN} | 9 mA (at 50 Hz) |
| | 7 mA (At 60 Hz) |

| | |
|----------------------------|------------------|
| Typical response time | 3 ms ... 12 ms |
| Typical release time range | 1.5 ms ... 16 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Varistor |

Contact side

| | |
|---------------------------------------|-----------------------|
| Contact type | Single contact, 1-PDT |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V (at 10 mA) |
| Maximum inrush current | 30 A (300 ms) |
| Min. switching current | 100 mA |
| Limiting continuous current | 10 A |
| Interrupting rating (ohmic load) max. | 2500 VA |

General data

| | |
|--|------------------------------------|
| Width | 16 mm |
| Height | 97 mm |
| Depth | 72 mm |
| Test voltage relay winding/relay contact | 4 kV (50 Hz, 1 min.) |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °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 | In rows with zero spacing |

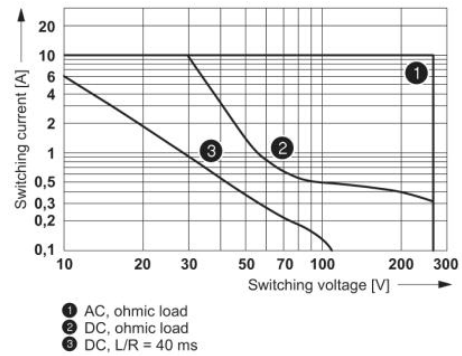
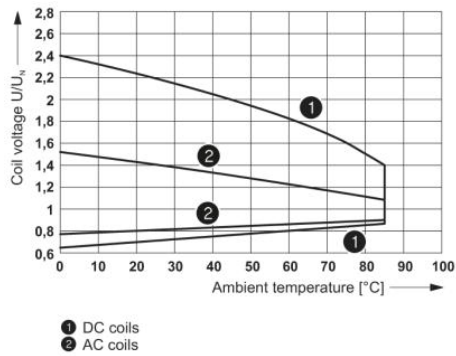
Connection data

| | |
|---------------------------------------|------------------------|
| Connection method | Spring-cage connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |

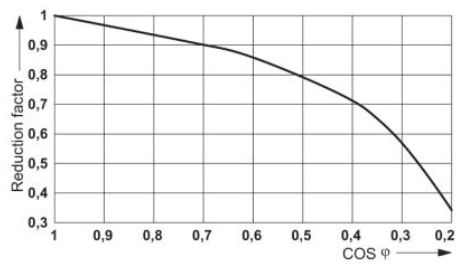
| | |
|--|---------------------|
| Conductor cross section stranded max. | 1.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 16 |
| Stripping length | 10 mm |

Diagrams/Drawings

Diagram

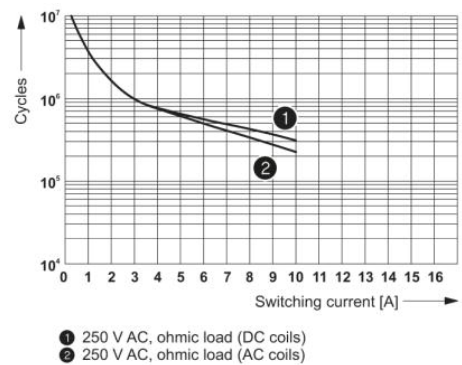


Operating voltage range of the relay



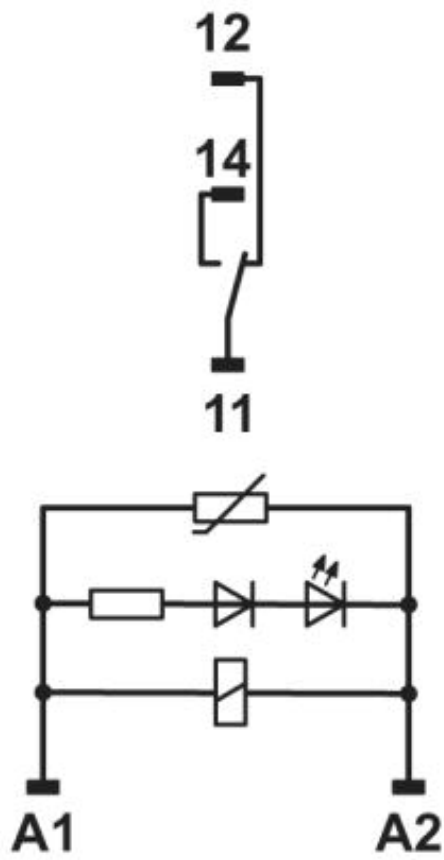
Service life reduction factor with various $\cos \phi$

Interrupting rating



Electrical service life

Circuit diagram



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