

Relay Module - RIF-2-RPT-LV-24AC/4X21 - 2903306

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Pre-assembled relay module with Push-in connection, consisting of: relay base, power contact relay, plug-in display/suppressor module, and retaining bracket. Contact type: 4 PDTs. Input voltage: 24 V AC

The figure shows the 24 V DC version

Key commercial data

| | |
|-------------------------|---------------|
| package_quantity | 10 |
| GTIN | 4046356732147 |

Technical data

Note

| | |
|--------------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|--------------------------------|---|

Dimensions

| | |
|---------------|-------|
| Width | 31 mm |
| Height | 96 mm |
| Depth | 75 mm |

Ambient conditions

| | |
|--|------------------|
| Ambient temperature (operation) | -40 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Coil side

| | |
|---|----------------|
| Nominal input voltage U_N | 24 V AC |
| Input voltage range in reference to U_N | see diagram |
| Typical input current at U_N | 70 mA |
| Typical response time | 5 ms ... 15 ms |
| Typical release time range | 5 ms ... 20 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Varistor |

Contact side

| | |
|----------------------------------|----------------|
| Contact type | 4 PDTs |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (At 24 mA) |

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Technical data

Contact side

| | |
|--|---------------------------|
| Maximum inrush current | 16 A (20 ms, N/O contact) |
| Min. switching current | 5 mA (at 24 V) |
| Limiting continuous current | 5 A (see diagram) |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC) |
| Interrupting rating (ohmic load) max. | 124 W (at 48 V DC) |
| Interrupting rating (ohmic load) max. | 108 W (at 60 V DC) |
| Interrupting rating (ohmic load) max. | 52 W (at 110 V DC) |
| Interrupting rating (ohmic load) max. | 48 W (at 220 V DC) |
| Interrupting rating (ohmic load) max. | 1250 VA (for 250 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 0.22 A (at 120 V, DC13) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 0.11 A (at 250 V, DC13) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1.5 A (at 24 V, AC15) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1.5 A (at 120 V, AC15) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1 A (at 240 V, AC15) |

Connection data

| | |
|--|----------------------|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section stranded min. | 0.14 mm ² |
| Conductor cross section stranded max. | 1.5 mm ² |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve min. | 0.14 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve max. | 1.5 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 1.5 mm ² |
| Conductor cross section AWG/kcmil max | 16 |
| Conductor cross section AWG/kcmil min. | 26 |

General

| | |
|--|---------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | IP20 (Relay socket) |
| Degree of protection | RT I (Relay) |
| Mechanical service life | Approx. 2 x 10 ⁷ cycles |
| Standards/regulations | DIN EN 50178 |
| Standards/regulations | IEC 62103 |

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Technical data

General

| | |
|--------------------------|---------------------------|
| Rated insulation voltage | 250 V AC |
| Pollution degree | 2 |
| Surge voltage category | II |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371603 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC001456 |
| ETIM 5.0 | EC001437 |

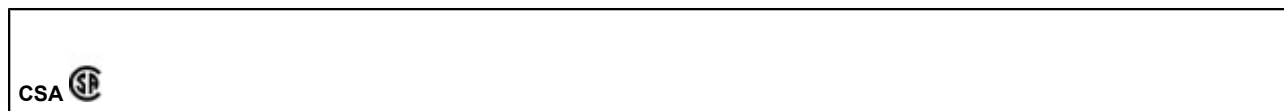
UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211917 |
| UNSPSC 7.0901 | 39121516 |
| UNSPSC 11 | 39121516 |
| UNSPSC 12.01 | 39121516 |
| UNSPSC 13.2 | 39121516 |

approvals

CSA /

Approval details



accessories

Bridge

Relay Module - RIF-2-RPT-LV-24AC/4X21 - 2903306

accessories

FBS 2-6 - 3030336



FBS 2-6 BU - 3036932



FBS 2-6 GY - 3032237



FBS 5-6 - 3030349



FBS 10-6 - 3030271



FBS 20-6 - 3030365



Relay Module - RIF-2-RPT-LV-24AC/4X21 - 2903306

accessories

FBS 50-6 - 3032224



End block

CLIPFIX 35 - 3022218



Test plug terminal block

MPS-MT - 0201744



Insulating sleeve

MPS-IH WH - 0201663



MPS-IH RD - 0201676



Relay Module - RIF-2-RPT-LV-24AC/4X21 - 2903306

accessories

MPS-IH BU - 0201689



MPS-IH YE - 0201692



MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



Terminal marking

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accessories

ZB 5 :UNBEDRUCKT - 1050004



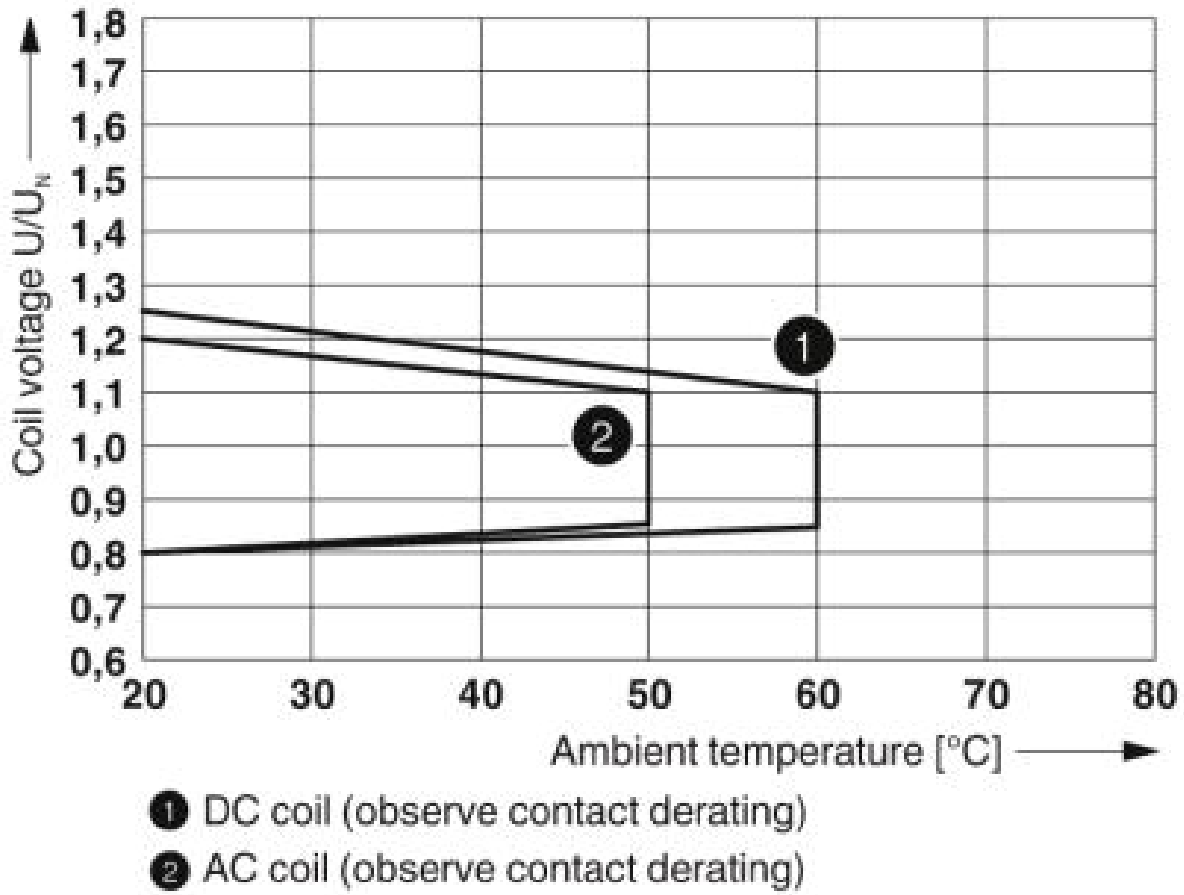
ZB 15:UNBEDRUCKT - 0811972



Drawings

Relay Module - RIF-2-RPT-LV-24AC/4X21 - 2903306

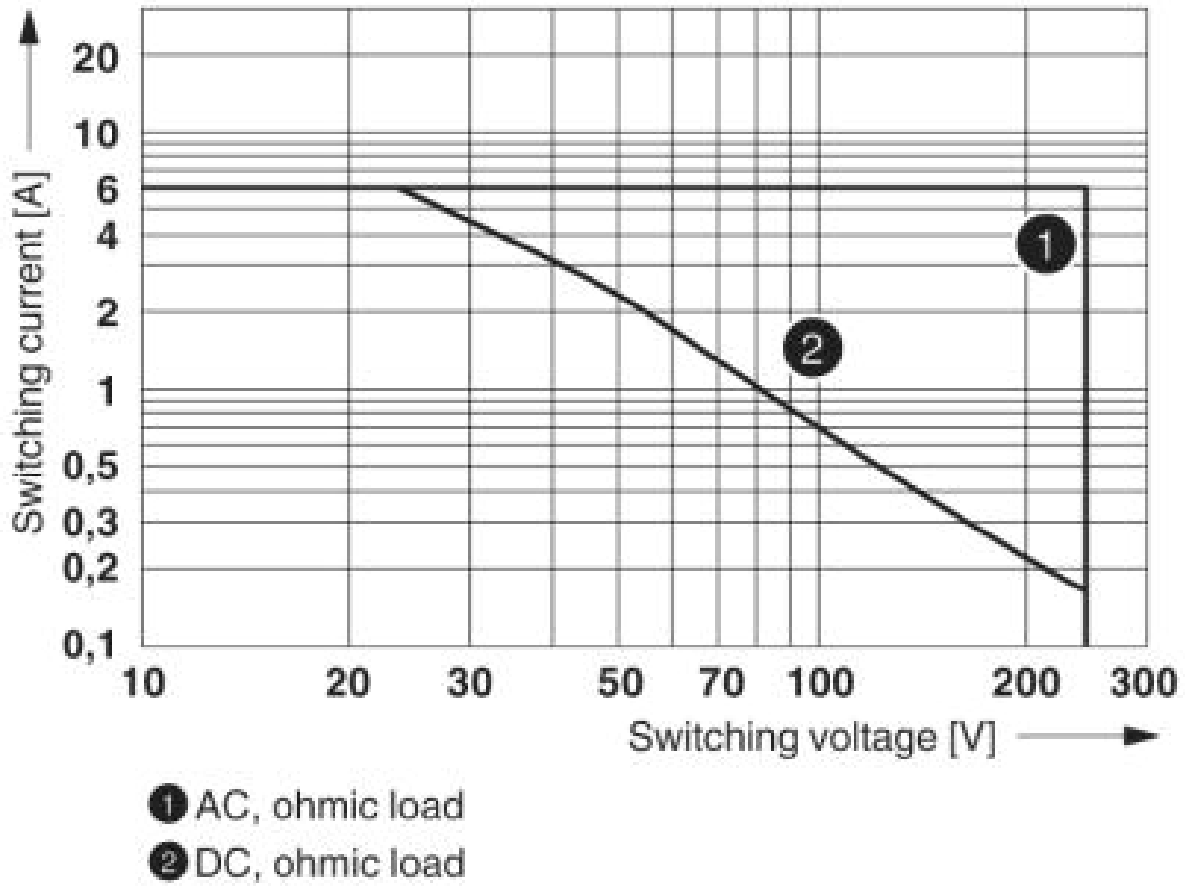
Diagram



Operating voltage range

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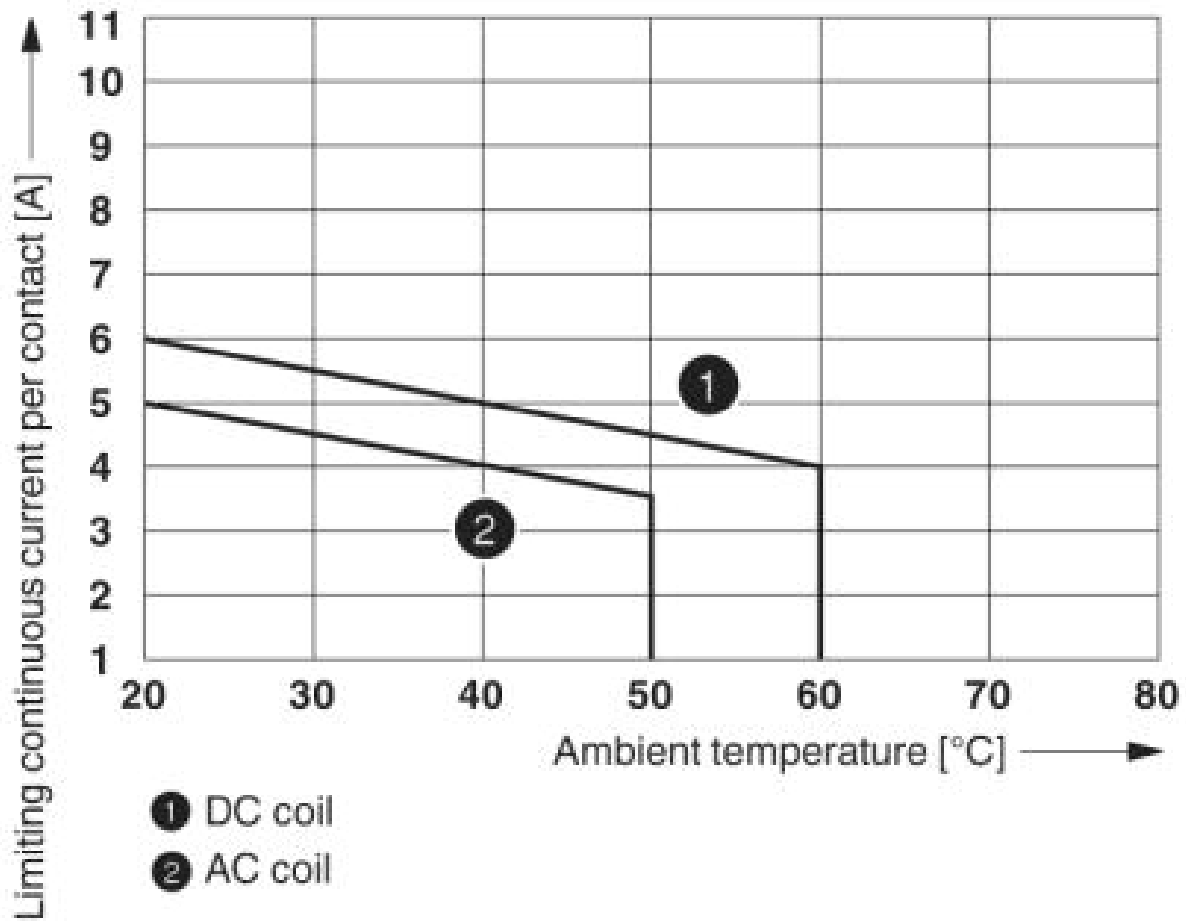
Diagram



Interrupting rating

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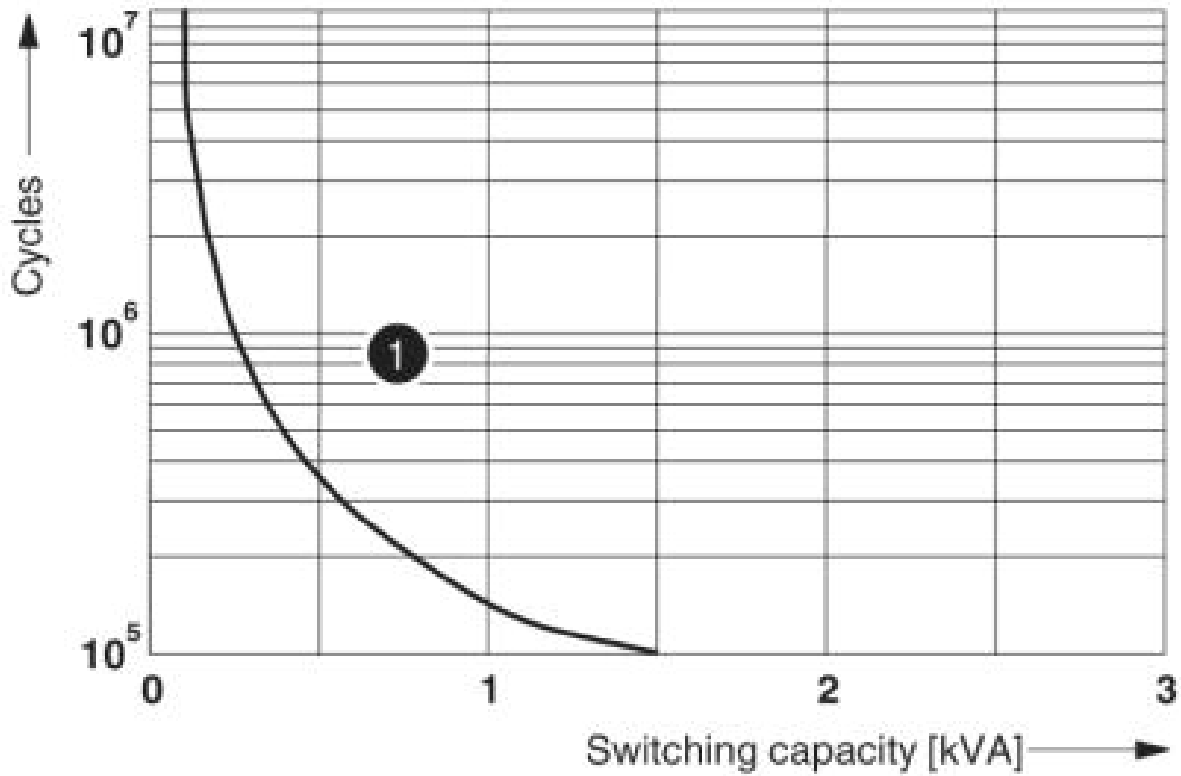
Diagram



Contact derating

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Diagram

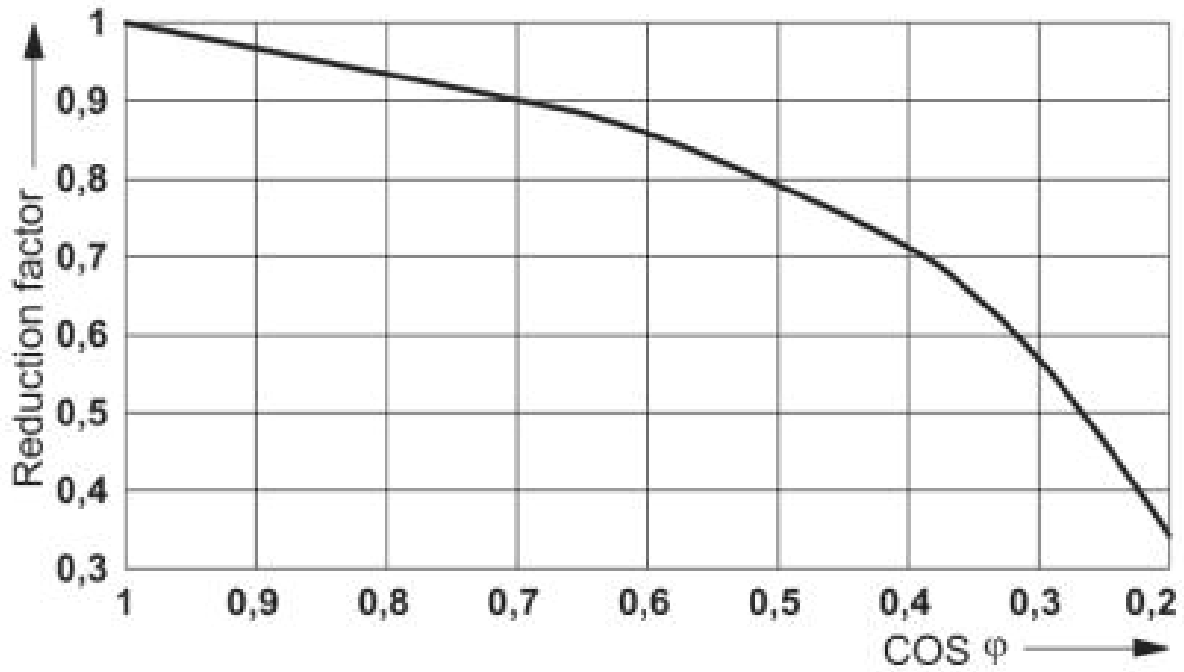


1 250 V AC, ohmic load

Electrical service life

Relay Module - RIF-2-RPT-LV-24AC/4X21 - 2903306

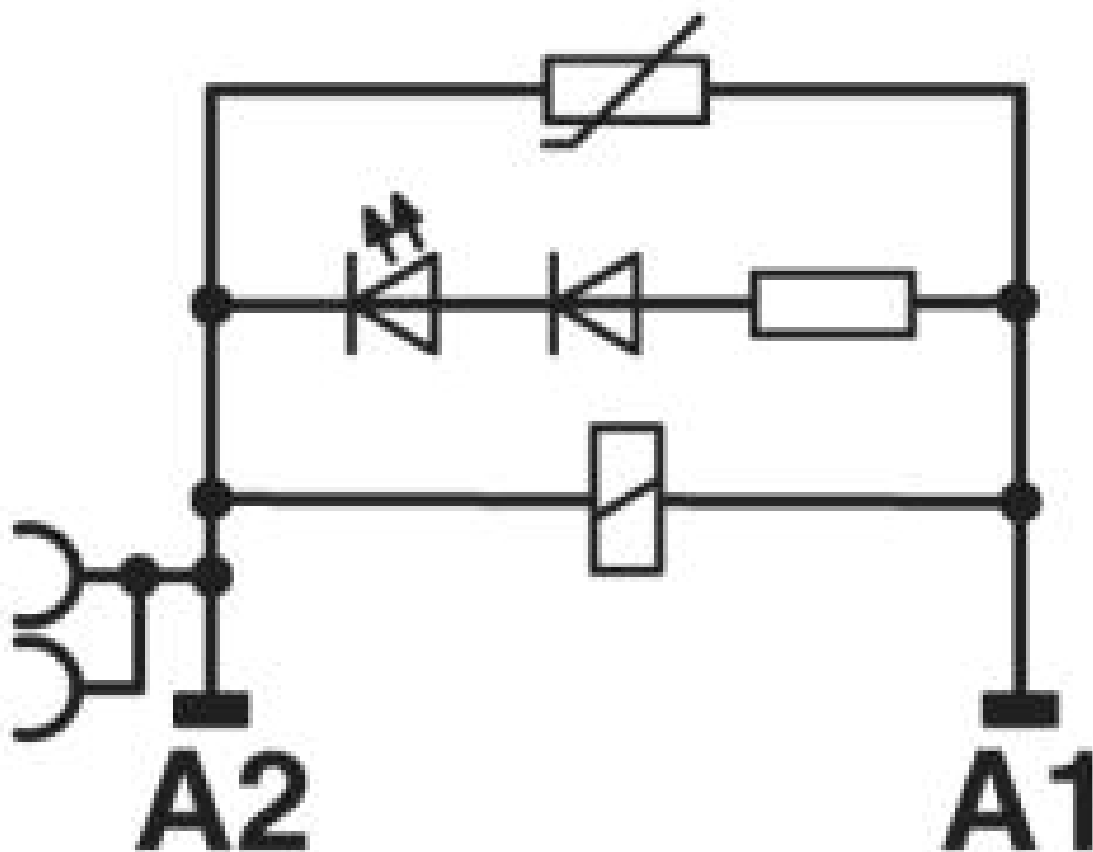
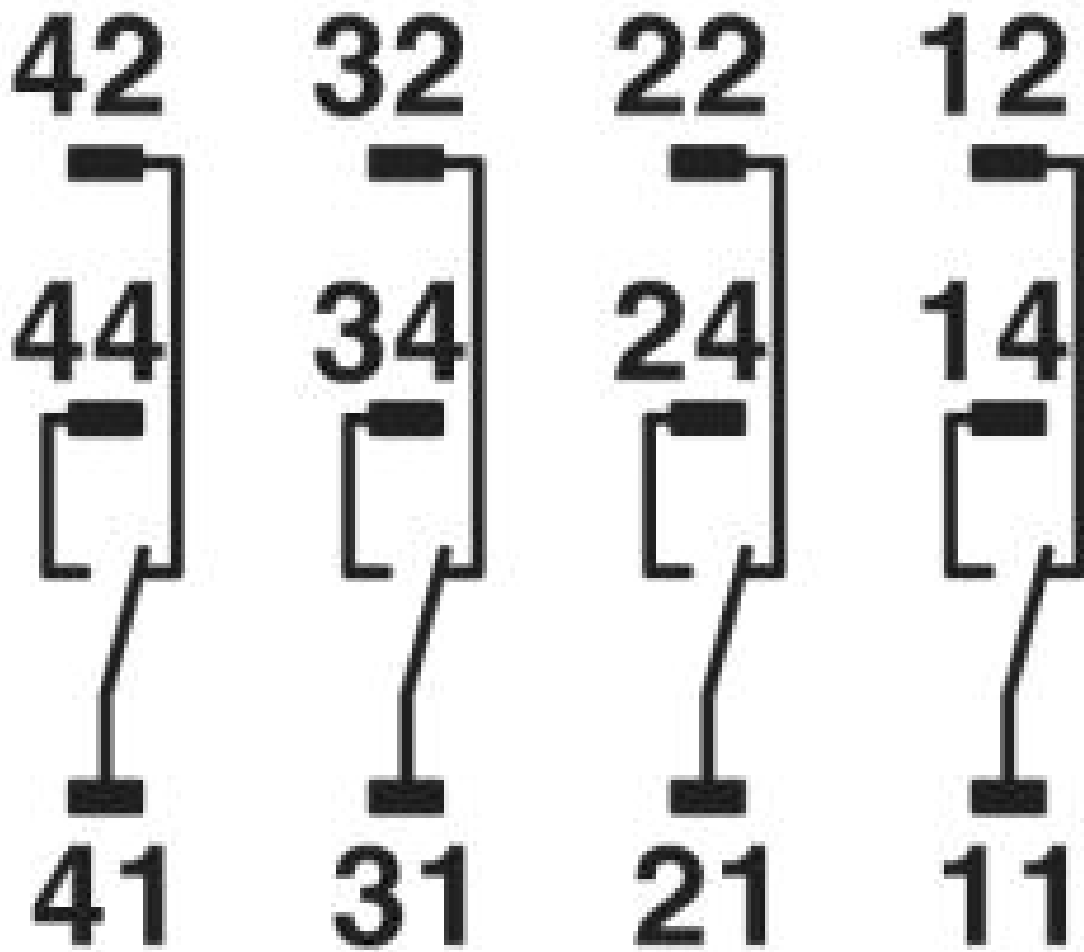
Diagram



Service life reduction factor

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Circuit diagram





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