

## Single relay - REL-OR3/LDP-110DC/3X21 - 2908898

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Plug-in octal relays with power contacts, 3 PDTs, test button, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, input voltage: 110 V DC



COMPLETE RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 10 pc                                                                                                   |
| GTIN                                 | <br>4 055626 355511 |
| GTIN                                 | 4055626355511                                                                                           |
| Weight per Piece (excluding packing) | 88.450 g                                                                                                |
| Custom tariff number                 | 85364900                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 35 mm   |
| Height | 35 mm   |
| Depth  | 54.4 mm |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection                    | RT I             |

#### Coil side

|                                           |               |
|-------------------------------------------|---------------|
| Nominal input voltage $U_N$               | 110 V DC      |
| Input voltage range in reference to $U_N$ | see diagram   |
| Typical response time                     | 18 ms         |
| Typical release time                      | 20 ms         |
| Protective circuit                        | Damping diode |
| Status display                            | Yellow LED    |

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## Technical data

### Contact side

|                                       |                           |
|---------------------------------------|---------------------------|
| Contact type                          | 3 PDTs                    |
| Type of switch contact                | Single contact            |
| Contact material                      | AgNi                      |
| Maximum switching voltage             | 250 V AC/DC               |
| Minimum switching voltage             | 10 V (At 24 mA)           |
| Min. switching current                | 10 mA (at 24 V)           |
| Maximum inrush current                | 30 A (20 ms, N/O contact) |
| Limiting continuous current           | 10 A                      |
| Interrupting rating (ohmic load) max. | 240 W (at 24 V DC)        |
|                                       | 124 W (at 48 V DC)        |
|                                       | 108 W (at 60 V DC)        |
|                                       | 52 W (at 110 V DC)        |
|                                       | 48 W (at 220 V DC)        |
|                                       | 2500 VA (for 250 V AC)    |
| Switching capacity min.               | 0.24 W                    |
| Switching capacity                    | 2 A (at 24 V, DC13)       |
|                                       | 0.22 A (at 120 V, DC13)   |
|                                       | 0.11 A (at 250 V, DC13)   |
|                                       | 3 A (at 24 V, AC15)       |
|                                       | 3 A (at 120 V, AC15)      |
|                                       | 1.5 A (at 240 V, AC15)    |

### General

|                                          |                                       |
|------------------------------------------|---------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2 kV <sub>rms</sub> (50 Hz, 1 min.)   |
| Test voltage PDT/PDT                     | 2 kV <sub>rms</sub> (50 Hz, 1 min.)   |
| Operating mode                           | 100% operating factor                 |
| Mechanical service life                  | approx. 2x 10 <sup>7</sup> cycles     |
| Mounting position                        | any                                   |

### Connection data

|                   |                 |
|-------------------|-----------------|
| Connection method | Plug connection |
|-------------------|-----------------|

### Standards and Regulations

|                          |                  |
|--------------------------|------------------|
| Standards/regulations    | IEC 60664        |
|                          | IEC 61810        |
| Rated insulation voltage | 250 V AC         |
| Rated surge voltage      | 4 kV             |
| Insulation               | Basic insulation |
| Pollution degree         | 3                |
| Overvoltage category     | III              |

### Environmental Product Compliance

## Single relay - REL-OR3/LDP-110DC/3X21 - 2908898

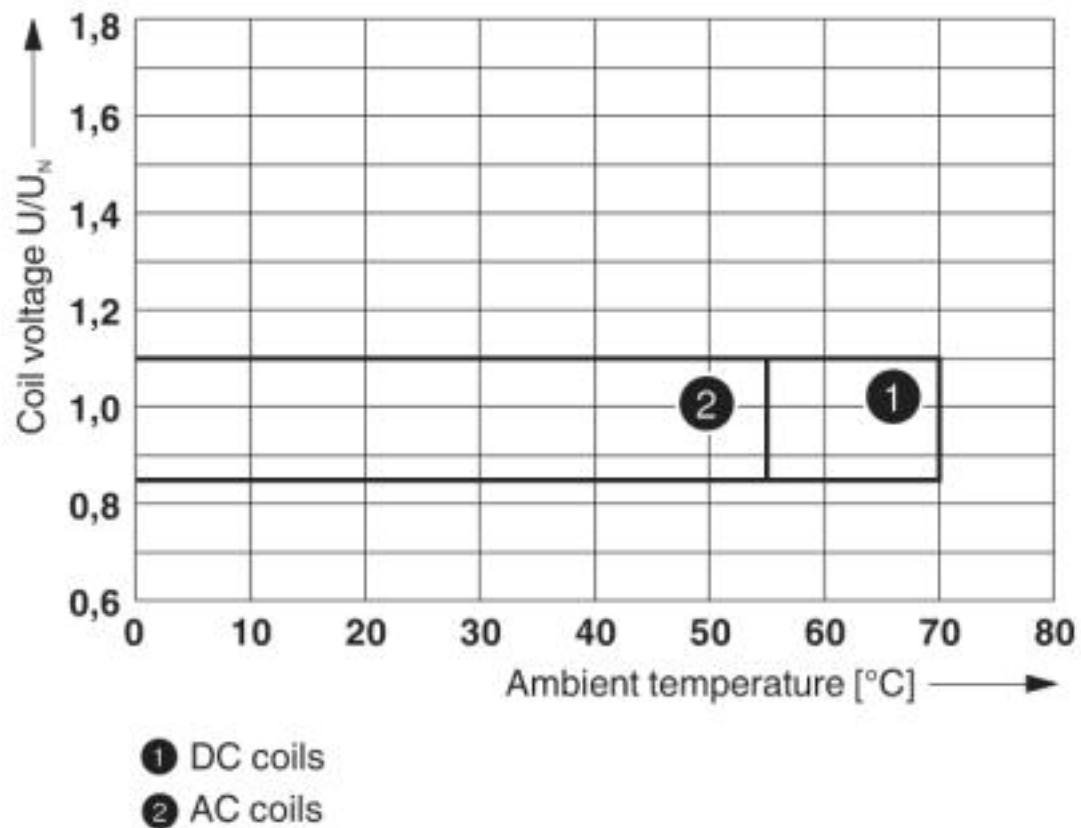
### Technical data

#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

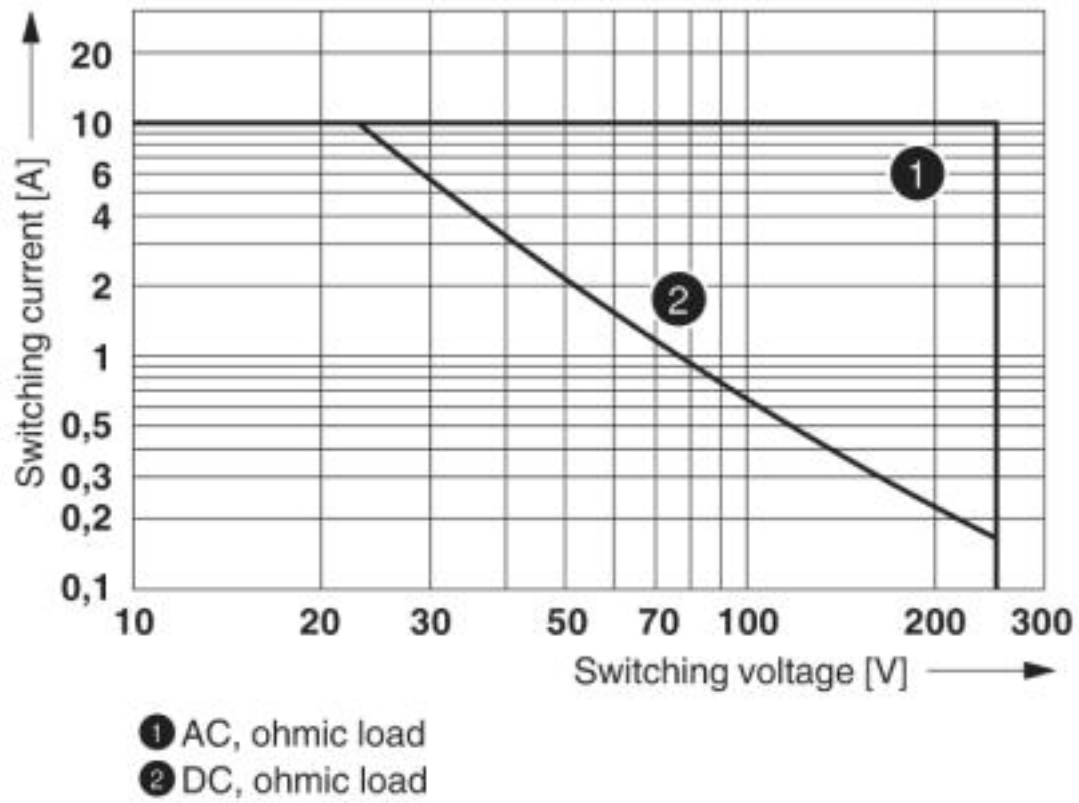
Diagram



#### Operating voltage range

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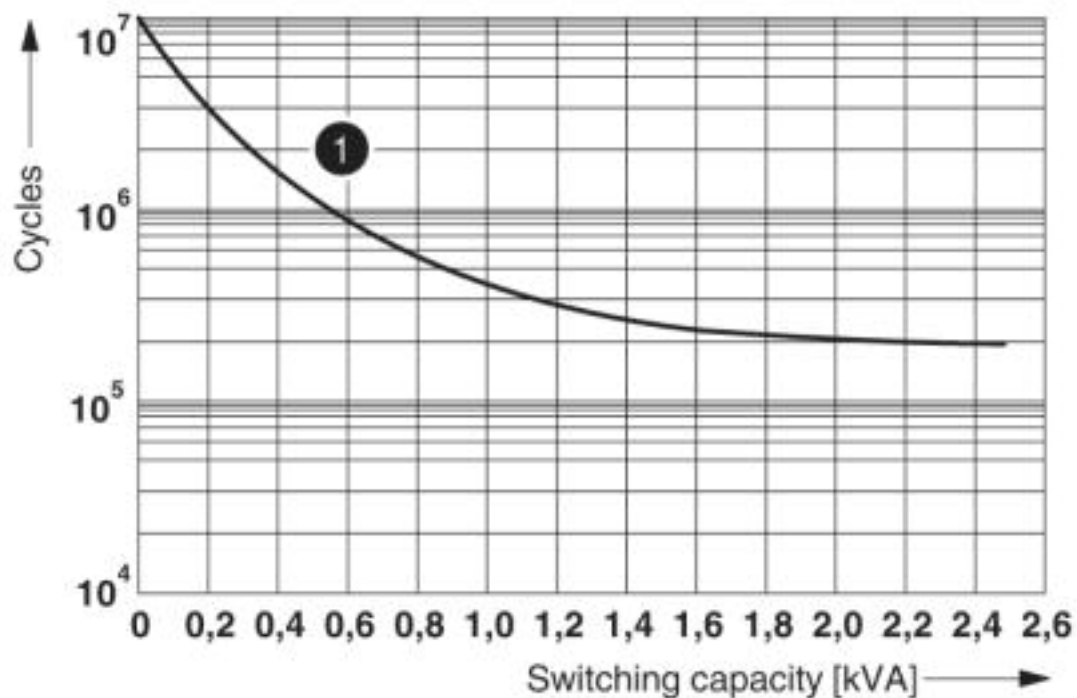
Diagram



Interrupting rating

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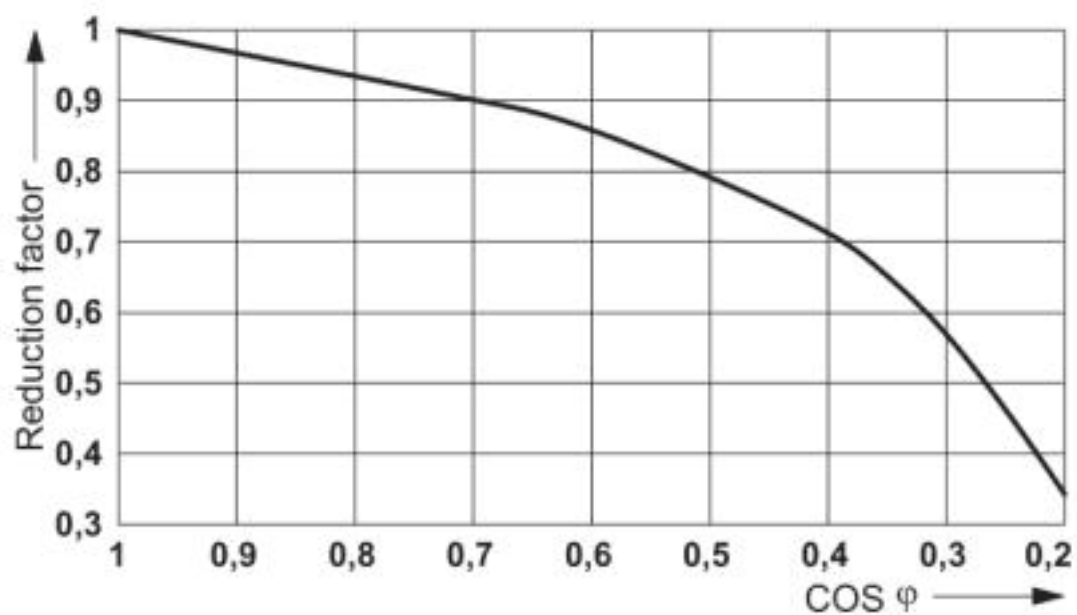
Diagram



① 250 V AC, ohmic load

Electrical service life

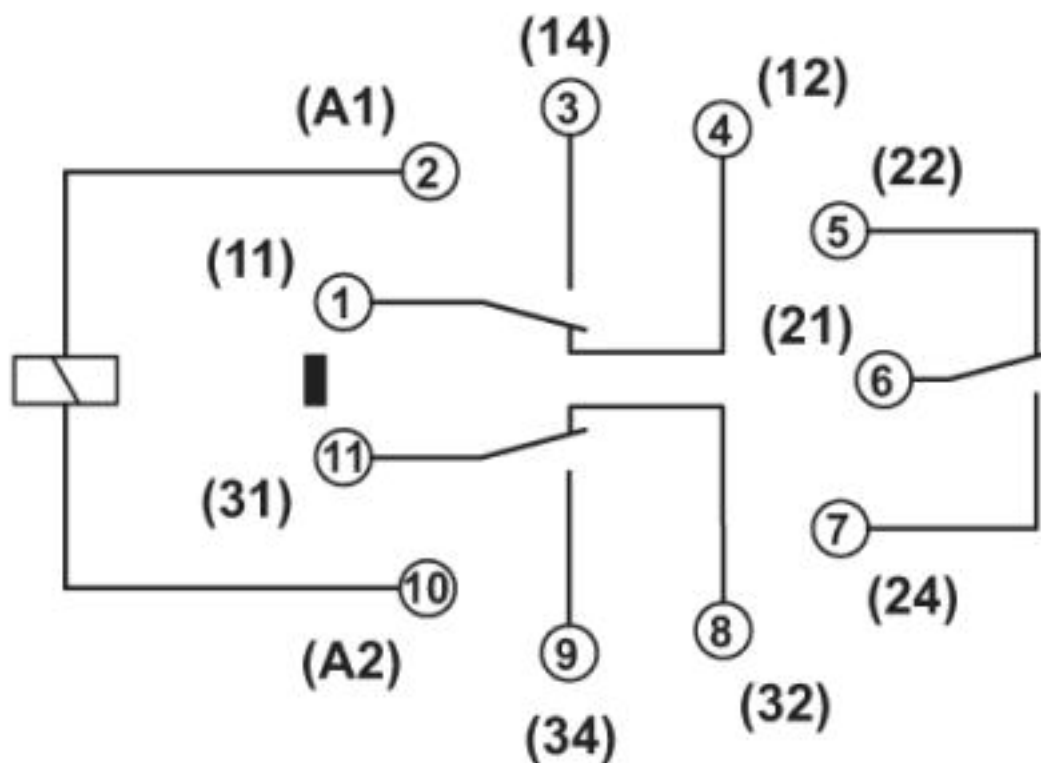
Diagram



Service life reduction factor

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Circuit diagram



### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371600 |
| eCl@ss 5.1 | 27371600 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |
| ETIM 6.0 | EC001437 |
| ETIM 7.0 | EC001437 |

UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |

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### Classifications

#### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 11    | 39121515 |
| UNSPSC 12.01 | 39121515 |
| UNSPSC 13.2  | 39122334 |
| UNSPSC 18.0  | 39122334 |
| UNSPSC 19.0  | 39122334 |
| UNSPSC 20.0  | 39122334 |
| UNSPSC 21.0  | 39122334 |

### Approvals

#### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|     |                                                                                     |                                                                                                                                         |          |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| CSA |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 70084446 |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|

|               |                                                                                     |                                                                                                                                                       |               |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 172140 |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|                |                                                                                     |                                                                                                                                                       |               |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 172140 |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|     |                                                                                     |  |                 |
|-----|-------------------------------------------------------------------------------------|--|-----------------|
| EAC |  |  | TR_TS_D_00573_c |
|-----|-------------------------------------------------------------------------------------|--|-----------------|

|     |                                                                                     |  |                 |
|-----|-------------------------------------------------------------------------------------|--|-----------------|
| EAC |  |  | TR_TS_S_00010_c |
|-----|-------------------------------------------------------------------------------------|--|-----------------|

## Single relay - REL-OR3/LDP-110DC/3X21 - 2908898

### Approvals

cULus Recognized



### Accessories

#### Additional products

Relay base - RIF-3-BPT/3X21 - 2900938



RIF-3... relay base, for octal relay with 3 PDTs, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

Relay base - RIF-3-BSC/3X21 - 2900936



RIF-3... relay base, for octal relay with 3 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5