

# REL-IR-BL/L- 24DC/2X21 - Single relay



1032526

<https://www.phoenixcontact.com/us/products/1032526>

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 24 V DC

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1032526       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | C460          |
| Product key                          | DKF943        |
| GTIN                                 | 4055626536071 |
| Weight per piece (including packing) | 30.176 g      |
| Weight per piece (excluding packing) | 29.09 g       |
| Customs tariff number                | 85364190      |
| Country of origin                    | AT            |

## Technical data

### Notes

|                    |  |
|--------------------|--|
| Notes on operation | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.                        |
| Notes on operation | The outputs are not suitable for switching different outer conductors.                                     |
| Notes on operation | Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed. |

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Single relay              |
| Product family          | ESSENTIAL edition         |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 3x 10 <sup>7</sup> cycles |

Insulation characteristics: Air clearances and creepage distances between coil and contact side

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

### Electrical properties

|  |  |
|--|--|
| Service life electrical                              | see diagram  |
| Maximum power dissipation for nominal condition      | 759 mW   |
| Test voltage (Winding/contact)                       | 2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)                       |
| Test voltage (Changeover contact/changeover contact) | 2.5 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact) |

Air clearances and creepage distances between coil and contact side

|                          |          |
|--------------------------|----------|
| Rated insulation voltage | 250 V AC |
| Rated surge voltage      | 5 kV     |

### Input data

Coil side

|   |                                 |
|---|---------------------------------|
| Nominal input voltage U <sub>N</sub>    | 24 V DC                         |
| Input voltage range                     | 19.2 V DC ... 40.8 V DC (20 °C) |
| Drive and function                      | monostable                      |
| Drive (polarity)                        | polarized                       |
| Typical input current at U <sub>N</sub> | 32 mA                           |
| Typical response time                   | 15 ms                           |
| Typical release time                    | 10 ms                           |
| Coil voltage                            | 24 V DC                         |
| Status display                          | Yellow LED (bidirectional)      |

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## Output data

### Switching

|                                       |                            |
|---------------------------------------|----------------------------|
| Contact switching type                | 2 changeover contacts      |
| Type of switch contact                | Single contact             |
| Contact material                      | AgNi                       |
| Maximum switching voltage             | 250 V AC/DC                |
| Minimum switching voltage             | 12 V (10 mA)               |
| Limiting continuous current           | 12 A                       |
| Maximum inrush current                | 24 A (20 ms, N/O contacts) |
| Min. switching current                | 10 mA (12 V)               |
| Interrupting rating (ohmic load) max. | 288 W (24 V DC)            |
|                                       | 130 W (48 V DC)            |
|                                       | 90 W (60 V DC)             |
|                                       | 66 W (110 V DC)            |
|                                       | 88 W (220 V DC)            |
| 3000 VA (250 V AC)                    |                            |
| Switching power min.                  | 120 mW                     |

## Connection data

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

## Dimensions

### Item dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 28 mm   |
| Depth  | 35.5 mm |

## Environmental and real-life conditions

### Ambient conditions

|  |                                |
|--|--------------------------------|
| Degree of protection                         | RT II                          |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation)              | -40 °C ... 70 °C               |
| Ambient temperature (storage/transport)      | -40 °C ... 70 °C               |
| Altitude                                     | ≤ 2000 m                       |

## Standards and regulations

### Air clearances and creepage distances between coil and contact side

|                       |            |
|-----------------------|------------|
| Standards/regulations | EN 61810-1 |
|-----------------------|------------|

## Mounting

|               |                           |
|---------------|---------------------------|
| Mounting type | Plug-in mounting          |
| Assembly note | in rows with zero spacing |

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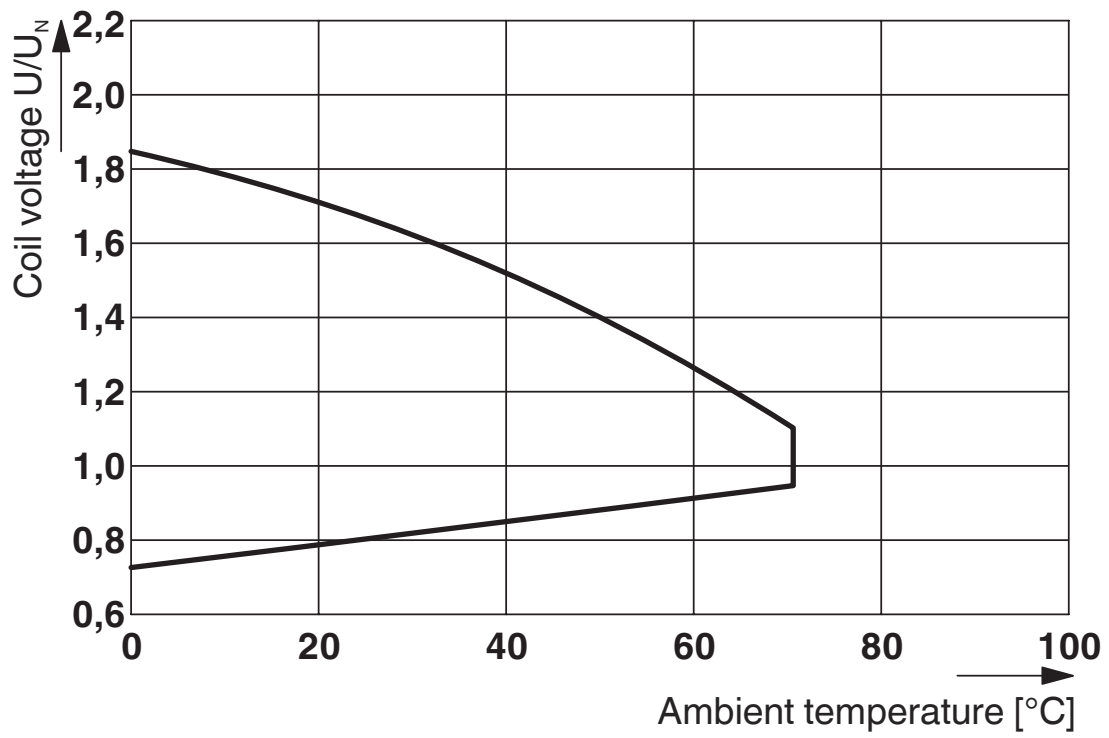
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|                   |     |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

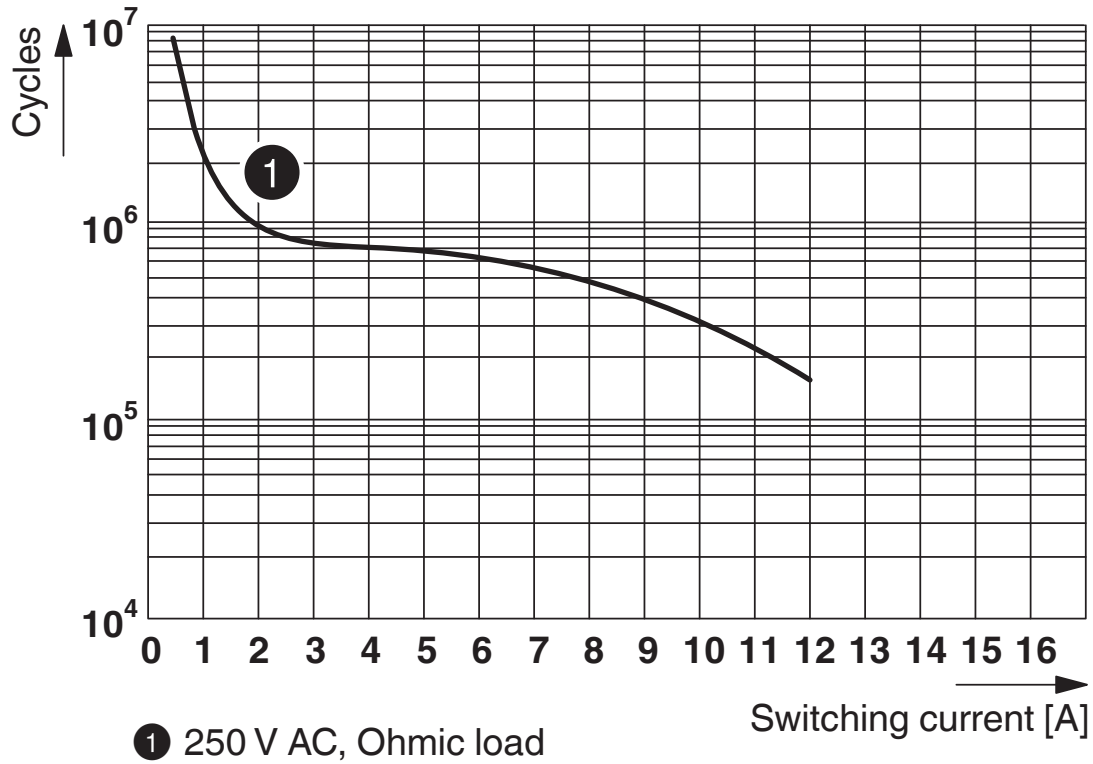
Drawings

Diagram



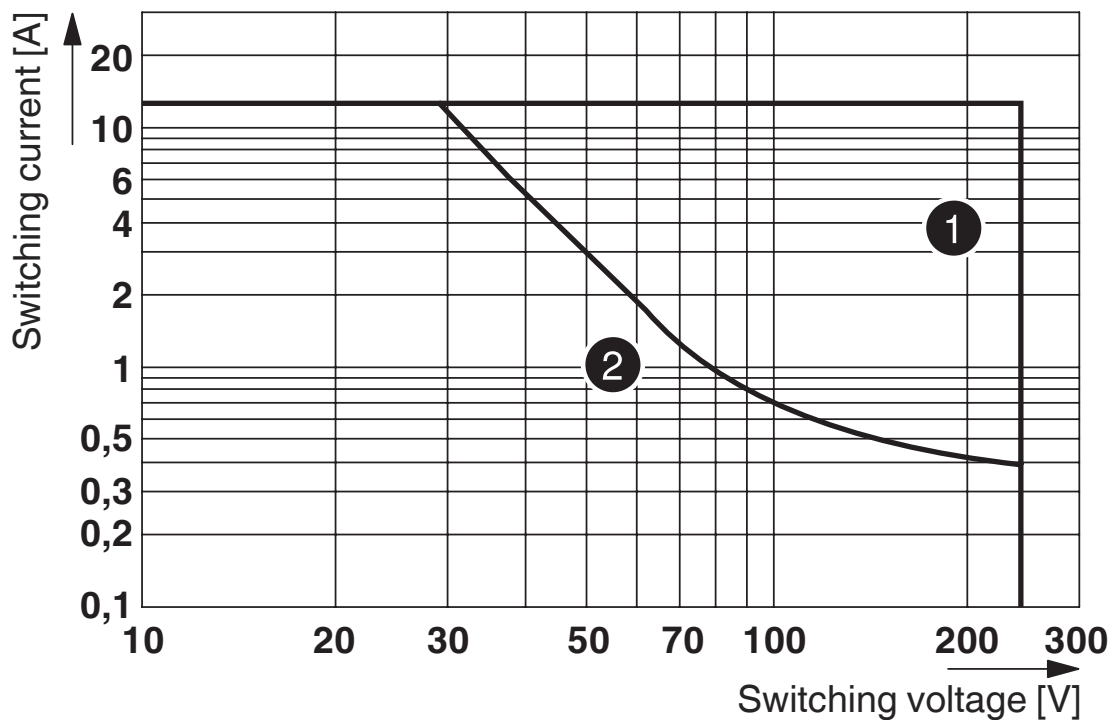
Operating voltage range

Diagram



Electrical service life

Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

Diagram



Service life reduction factor

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Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures  $\leq 0^\circ\text{C}$  must be prevented

Area B: Condensation at ambient temperatures  $> 0^\circ\text{C}$  must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature  $\leq 25^\circ\text{C}$ .


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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1032526>



**cUL Recognized**  
Approval ID: FILE E 228652



**UL Recognized**  
Approval ID: FILE E 228652



**VDE approval of drawings**  
Approval ID: 40058034

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001437 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 0.17 kg CO2e |
|---------|--------------|

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