

# REL-IR-BL/L-230AC/2X21 - Single relay



1032530

<https://www.phoenixcontact.com/ae/products/1032530>

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 230 V AC

## Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1032530       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales Key                            | CK6           |
| Product Key                          | CK6193        |
| GTIN                                 | 4055626536958 |
| Weight per Piece (including packing) | 29.92 g       |
| Weight per Piece (excluding packing) | 28.7 g        |
| Customs tariff number                | 85364900      |
| Country of origin                    | AT            |

## Technical Data

### Notes

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

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Single relay              |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 2x 10 <sup>7</sup> cycles |

### Insulation characteristics

|            |                  |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

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

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

### Electrical properties

|                                                      |                                                                              |
|------------------------------------------------------|------------------------------------------------------------------------------|
| Service life electrical                              | see diagram                                                                  |
| Maximum power dissipation for nominal condition      | 1 VA                                                                         |
| 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>    | 230 V AC                        |
| Input voltage range                     | 184 V AC ... 379.5 V AC (20 °C) |
| Mains frequency                         | 50/60 Hz                        |
| Drive and function                      | monostable                      |
| Drive (polarity)                        | non-polarized                   |
| Typical input current at U <sub>N</sub> | 4.4 mA (50 Hz)                  |
| Typical response time                   | 5 ms ... 15 ms                  |
| Typical release time range              | 5 ms ... 20 ms                  |
| Coil voltage                            | 230 V AC                        |
| Status display                          | Yellow LED                      |

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## Output data

### Switching

|                                       |                            |
|---------------------------------------|----------------------------|
| Contact 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 capacity min.               | 120 mW                     |

## Connection data

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

## 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

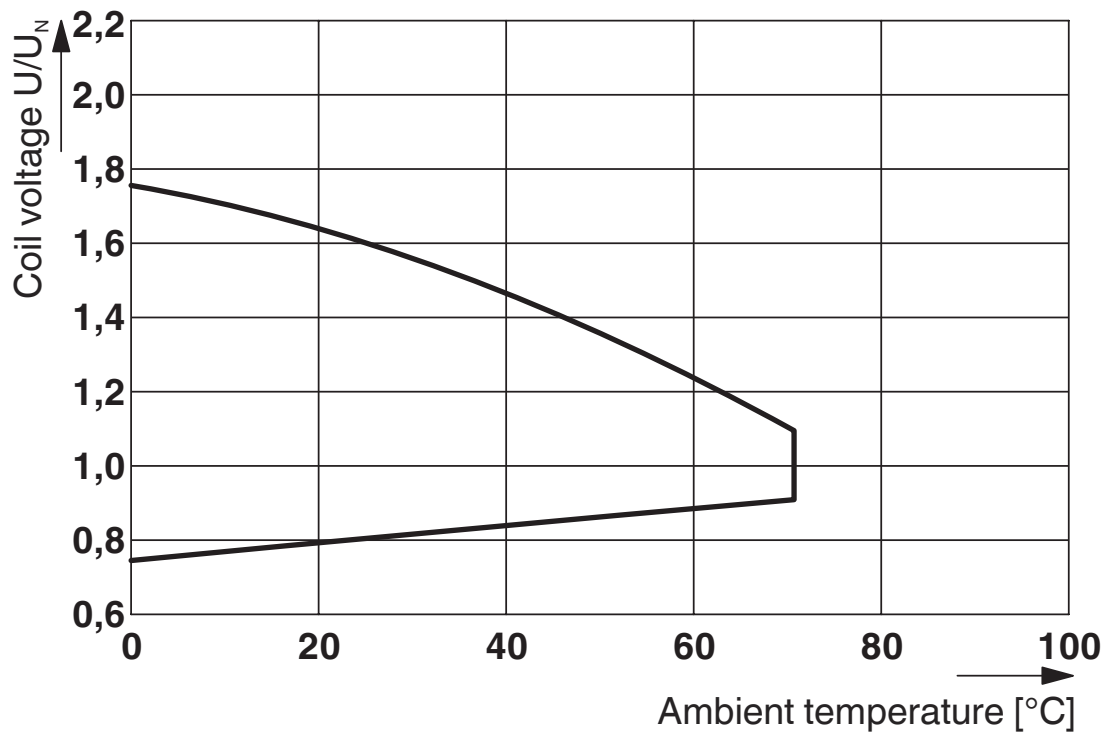
|                       |            |
|-----------------------|------------|
| Standards/regulations | EN 61810-1 |
|-----------------------|------------|

## Mounting

|                       |                           |
|-----------------------|---------------------------|
| Mounting type         | Plug-in mounting          |
| Assembly instructions | in rows with zero spacing |
| Mounting position     | any                       |

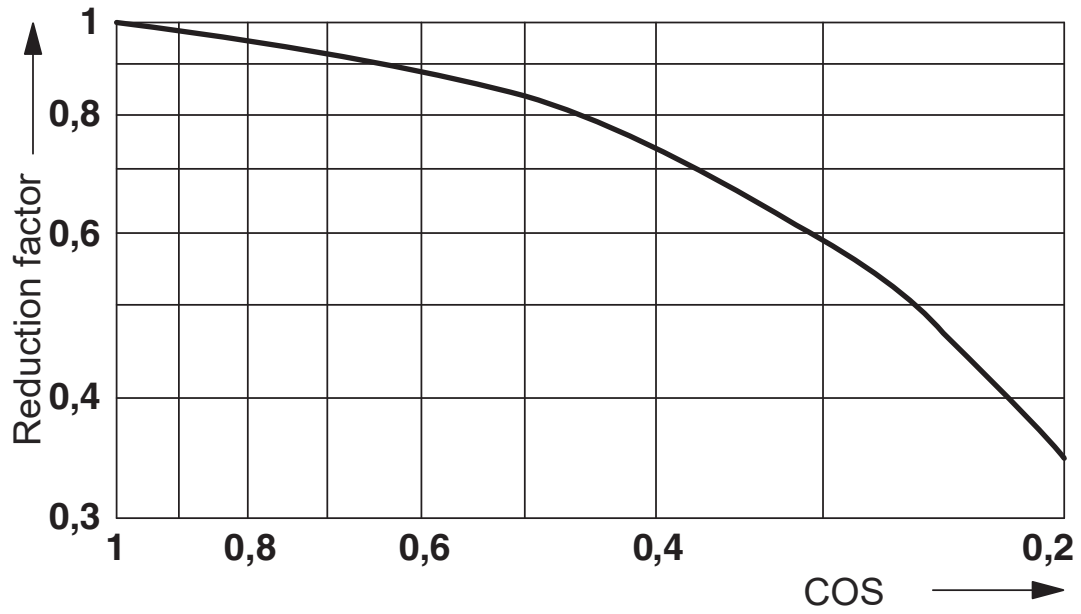
Drawings

Diagram



Operating voltage range

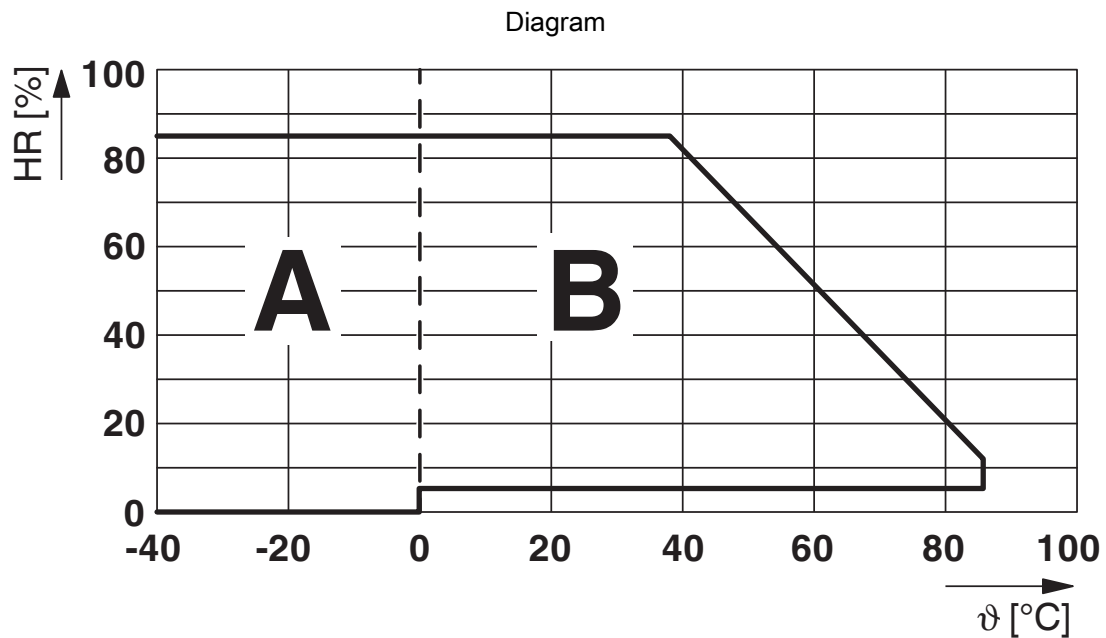
Diagram



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

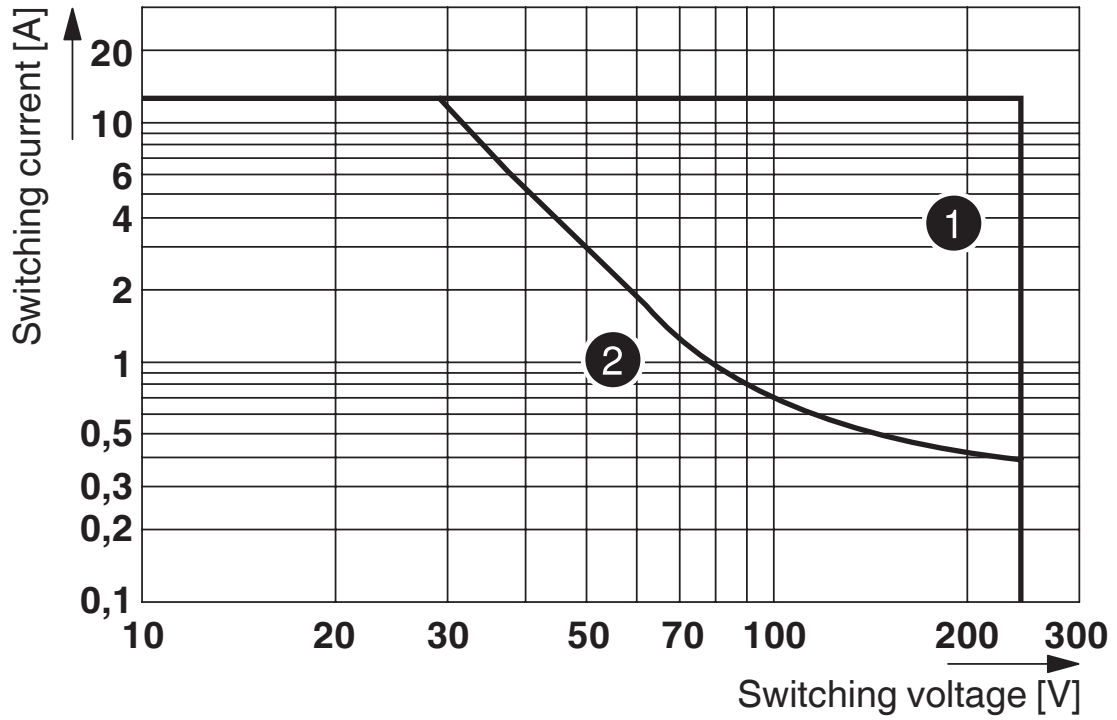
Area B: Condensation at ambient temperatures  $> 0^\circ\text{C}$  must be prevented

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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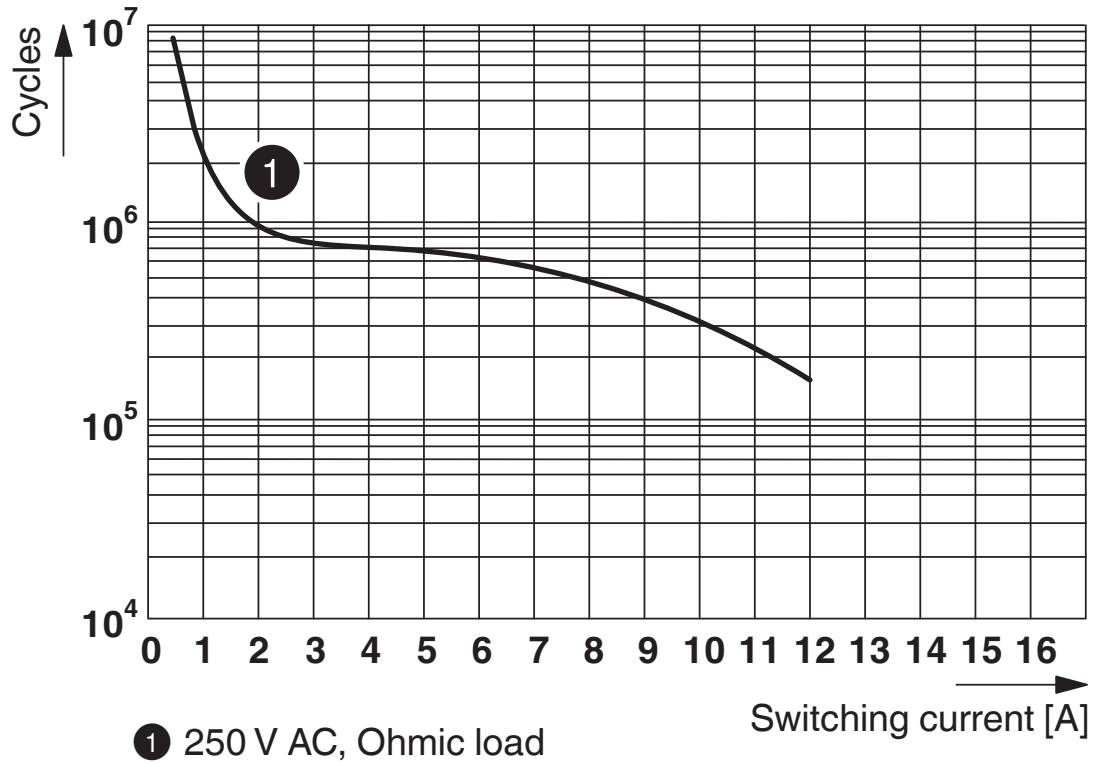
Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

Diagram



Electrical service life



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ae/products/1032530>



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



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



**EAC**  
Approval ID: TR\_TS\_D\_00573\_c



**EAC**  
Approval ID: RU\*C-DE.\*08.B.00010

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001437 |
|----------|----------|

### UNSPSC

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

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## Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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## Accessories

### ECOR-2-BSC2-RT/2X21 - Relay base

2908341

<https://www.phoenixcontact.com/ae/products/2908341>

ECOR-2 relay base, for industrial relays with two changeover contacts, bolt connection, for mounting on NS 35/7,5



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