

# DEK-OV- 5DC/ 24DC/ 3 - Solid-state relay terminal block



2941361

<https://www.phoenixcontact.com/in/products/2941361>

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Power solid-state relay terminal block, input: 5 V DC, output: 3 - 30 V DC/3 A, terminal block width: 6.2 mm

## Your advantages

- Actuator version available
- EB-DIK insertion bridges
- Labeling and mounting with user-friendly modular terminal blocks
- Wear-free switching of up to 24 V DC/10 A or 240 V AC/800 mA
- Integrated output protective circuit
- Status indicator
- Integrated input circuit
- Zero voltage switch at AC output
- Electrical isolation between input and output at up to 2.5 kVrms

## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2941361             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 1 pc                |
| Sales Key                            | CK6                 |
| Product Key                          | CK61D2              |
| Catalog Page                         | Page 443 (C-5-2019) |
| GTIN                                 | 4017918080389       |
| Weight per Piece (including packing) | 22.2 g              |
| Weight per Piece (excluding packing) | 18.1 g              |
| Customs tariff number                | 85364190            |
| Country of origin                    | CN                  |

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## Technical Data

### Notes

|         |   |
|---------|---|
| General | Use of EB 80-DIK... bridges in the DEK terminal blocks:<br>Absorption of humidity from the ambient air as well as an unfavorable tolerance between a larger number of DEK terminal blocks and the EB 80-DIK... bridge may cause (minor) expansion of the DEK housing. When the EB 80-DIK... bridges are used, therefore, it is recommended that these be disconnected after about 10 to 12 DEK terminal blocks and a wire bridge to the next DEK terminal block be inserted in their place. |
|---------|---|

### Product properties

|                |                          |
|----------------|--------------------------|
| Product type   | Solid-state relay module |
| Product family | DEK                      |
| Application    | Output function          |
| Operating mode | 100% operating factor    |

### Insulation characteristics

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

### Insulation characteristics: Standards/regulations

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

### Electrical properties

|                             |   |
|-----------------------------|---|
| Test voltage (Input/output) | 2.5 kV AC (50 Hz, 1 min., input/output) |
|-----------------------------|---|

### Input data

|  |                             |
|--|-----------------------------|
| Nominal input voltage $U_N$                          | 5 V DC                      |
| Input voltage range in reference to $U_N$            | 0.8 ... 1.2                 |
| Input voltage range                                  | 4 V DC ... 6 V DC           |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.4$                  |
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.8$                  |
| Typical input current at $U_N$                       | 11 mA                       |
| Typical response time                                | 40 $\mu$ s                  |
| Typical turn-off time                                | 200 $\mu$ s                 |
| Operating voltage display                            | Yellow LED                  |
| Protective circuit                                   | Reverse polarity protection |
| Transmission frequency                               | 300 Hz                      |

### Output data

|                             |                          |
|-----------------------------|--------------------------|
| Contact switching type      | 1 N/O contact            |
| Design of digital output    | electronic               |
| Output voltage range        | 3 V DC ... 30 V DC       |
| Limiting continuous current | 3 A (see derating curve) |

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|  |  |
|--|--|
| Voltage drop at max. limiting continuous current | ≤ 0.2 V  |
| Output circuit                                   | 2-conductor, floating  |
| Protective circuit                               | Reverse polarity protection; Polarity protection diode<br>Surge protection |

## Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 14                                   |
| Tightening torque                | 0.5 Nm                                      |

## Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 56 mm  |

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Standards and regulations

### Standards/regulations

|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

## Mounting

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

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