

# Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Power solid-state relay terminal block, input: 24 V DC, output: 3 - 30 V DC/3 A, terminal block width: 6.2 mm

## Your advantages

- ✓ EB-DIK insertion bridges
- ✓ Actuator version available
- ✓ 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



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 10 pc   |
| GTIN                                 | <br>4 017918 080396 |
| GTIN                                 | 4017918080396   |
| Weight per Piece (excluding packing) | 18.000 g  |
| Custom tariff number                 | 85364190  |
| Country of origin                    | China   |

## Technical data

### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area   |
| Type of note            | Note on application   |
| Note                    | Use of EB 80-DIK... bridges in the DEK terminal blocks: 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... |

# Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

## Technical data

### Note

|  |  |
|--|--|
|  | 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. |
|--|--|

### Dimensions

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

### Ambient conditions

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

### Input data

|  |                             |
|--|-----------------------------|
| Nominal input voltage $U_N$                          | 24 V DC                     |
| Input voltage range in reference to $U_N$            | 0.8 ... 1.2                 |
| Input voltage range                                  | 19.2 V DC ... 28.8 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 $U_N$                       | 7 mA                        |
| Typical response time                                | 40 $\mu$ s                  |
| Typical turn-off time                                | 200 $\mu$ s                 |
| Operating voltage display                            | Yellow LED                  |
| Type of protection                                   | Reverse polarity protection |
| Transmission frequency                               | 300 Hz                      |
| Power dissipation for nominal condition              | 0.6 W                       |

### Output data

|  |                             |
|--|-----------------------------|
| Output voltage range                             | 3 V DC ... 30 V DC          |
| Limiting continuous current                      | 3 A (see derating curve)    |
| Voltage drop at max. limiting continuous current | $\leq 0.2$ V                |
| Output circuit                                   | 2-wire, floating            |
| Type of protection                               | Reverse polarity protection |
|  | Surge protection            |
| Protective circuit/component                     | Polarity protection diode   |

### General

|                           |                           |
|---------------------------|---------------------------|
| Test voltage input/output | 2.5 kV AC                 |
| Mounting position         | any                       |
| Assembly instructions     | In rows with zero spacing |
| Operating mode            | 100% operating factor     |

### Connection data

|                 |            |
|-----------------|------------|
| Connection name | Input side |
|-----------------|------------|

# Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

## Technical data

### Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross section solid    | 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                                   |
| Torque                           | 0.5 Nm                                      |

### Connection data 2

|                                  |   |
|----------------------------------|---|
| Connection name                  | Output side                                 |
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross section solid    | 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                                   |
| Torque                           | 0.5 Nm                                      |

### Standards and Regulations

|                       |                       |
|-----------------------|-----------------------|
| Designation           | Standards/regulations |
| Standards/regulations | IEC 60664             |
|                       | EN 50178              |
| Insulation            | Basic insulation      |
| Pollution degree      | 2                     |
| Overvoltage category  | III                   |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371000 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371604 |
| eCl@ss 8.0 | 27371604 |
| eCl@ss 9.0 | 27371604 |

# Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001504 |
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC001504 |
| ETIM 5.0 | EC001504 |
| ETIM 6.0 | EC001504 |
| ETIM 7.0 | EC001504 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121542 |
| UNSPSC 11     | 39121542 |
| UNSPSC 12.01  | 39121542 |
| UNSPSC 13.2   | 39122326 |

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--------------------------|

## Accessories

### Accessories

#### Insertion bridge

Insertion bridge - EB 80- DIK WH - 2715788



Insertion bridge, pitch: 6.15 mm, number of positions: 80, color: white

## Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

### Accessories

Insertion bridge - EB 80- DIK RD - 2715953



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: red

---

Insertion bridge - EB 80- DIK BU - 2715940



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: blue

---

Insertion bridge - EB 10- DIK BU - 2716680



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: blue

---

Insertion bridge - EB 5- DIK BU - 2716677



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: blue

---

Insertion bridge - EB 4- DIK BU - 2716664



Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: blue

---

## Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

### Accessories

Insertion bridge - EB 3- DIK BU - 2716651



Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: blue

---

Insertion bridge - EB 2- DIK BU - 2716648



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: blue

---

Insertion bridge - EB 10- DIK RD - 2716774



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: red

---

Insertion bridge - EB 5- DIK RD - 2716761



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: red

---

Insertion bridge - EB 4- DIK RD - 2716758



Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: red

---

## Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

### Accessories

Insertion bridge - EB 3- DIK RD - 2716745



Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: red

Insertion bridge - EB 2- DIK RD - 2716693



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: red

### Labeled terminal marker

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

### Partition plate

Separating plate - D-DEK 1,5 GN - 2716949



Cover for setting the end of a terminal row, color: green

### Sensor/actuator terminal block

Sensor/actuator terminal block - DIKD 1,5 - 2715979



Sensor/actuator terminal block, connection method: Screw connection, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, width: 6.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

### Terminal marking

## Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 3 - 2941374

### Accessories

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

---

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

---

---