

## DEK-OE-120AC/ 48DC/100

Order No.: 2941659

The illustration shows the version DEK-OE- 24DC/48DC/100



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2941659>

Input optocoupler terminal block, input: 120 V DC, output: 3 - 48 V DC/100 mA, terminal width 6.2 mm

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918080563      |
| Pack                     | 10 pcs.            |
| Customs tariff           | 85364900           |
| Weight/Piece             | 0.0239 KG          |
| Catalog page information | Page 120 (IF-2009) |

### Product notes

WEEE/RoHS-compliant since:  
08/10/2006



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### Input data

|                                                      |             |
|------------------------------------------------------|-------------|
| Nominal input voltage $U_N$                          | 120 V AC    |
| Input voltage range in reference to $U_N$            | 0.9 ... 1.1 |
| 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 $U_N$ | 3.2 mA              |
| Typical response time          | 10 ms               |
| Typical turn-off time          | 20 ms               |
| Operating voltage display      | Yellow LED          |
| Name of protection             | Polarity protection |
|                                | Surge protection    |
| Transmission frequency         | 3 Hz                |

#### Output data

|                                                  |                                                     |
|--------------------------------------------------|-----------------------------------------------------|
| Output nominal voltage range                     | 3 V DC ... 48 V DC                                  |
| Limiting continuous current                      | 100 mA                                              |
| Voltage drop at max. limiting continuous current | $\leq 0.9$ V                                        |
| Output circuit                                   | 2-conductor floating, 3-conductor ground-referenced |
| Name of protection                               | Polarity protection                                 |
|                                                  | Free-wheeling diode                                 |
| Protective circuit/component                     | Polarity protection diode                           |
|                                                  | Damping diode                                       |
| Output resistor                                  | Approx. 22 k $\Omega$ (for 3-wire operation)        |

#### Connection data

|                                        |                     |
|----------------------------------------|---------------------|
| Type of connection                     | Screw connection    |
| Stripping length                       | 8 mm                |
| Screw thread                           | M3                  |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup> |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min. | 24                  |
| Conductor cross section AWG/kcmil max  | 14                  |

#### General data

|                                         |                  |
|-----------------------------------------|------------------|
| Width                                   | 6.2 mm           |
| Height                                  | 56 mm            |
| Depth                                   | 80 mm            |
| Test voltage input/output               | 2.5 kV AC        |
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

|                        |                           |
|------------------------|---------------------------|
| Mounting position      | Any                       |
| Assembly instructions  | In rows with zero spacing |
| Operating mode         | 100% operating factor     |
| Standards/regulations  | IEC 60664                 |
|                        | IEC 60664 A               |
|                        | DIN VDE 0110              |
| Pollution degree       | 2                         |
| Surge voltage category | III                       |

#### Certificates / Approvals



Certification

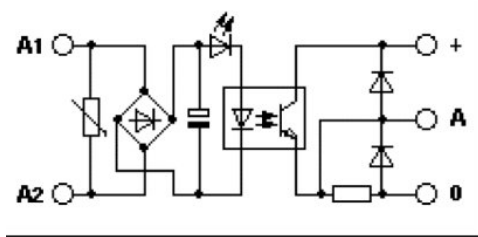
CUL, GOST, UL

#### Accessories

| Item           | Designation   | Description                                                   |
|----------------|---------------|---------------------------------------------------------------|
| <b>Bridges</b> |               |                                                               |
| 2716648        | EB 2- DIK BU  | Cross connector/bridge, Number of positions: 2, Color: blue   |
| 2716693        | EB 2- DIK RD  | Cross connector/bridge, Number of positions: 2, Color: red    |
| 2716651        | EB 3- DIK BU  | Cross connector/bridge, Number of positions: 3, Color: blue   |
| 2716745        | EB 3- DIK RD  | Cross connector/bridge, Number of positions: 3, Color: red    |
| 2716664        | EB 4- DIK BU  | Cross connector/bridge, Number of positions: 4, Color: blue   |
| 2716758        | EB 4- DIK RD  | Cross connector/bridge, Number of positions: 4, Color: red    |
| 2716677        | EB 5- DIK BU  | Cross connector/bridge, Number of positions: 5, Color: blue   |
| 2716761        | EB 5- DIK RD  | Cross connector/bridge, Number of positions: 5, Color: red    |
| 2716680        | EB 10- DIK BU | Cross connector/bridge, Number of positions: 10, Color: blue  |
| 2716774        | EB 10- DIK RD | Cross connector/bridge, Number of positions: 10, Color: red   |
| 2715940        | EB 80- DIK BU | Cross connector/bridge, Number of positions: 80, Color: blue  |
| 2715953        | EB 80- DIK RD | Cross connector/bridge, Number of positions: 80, Color: red   |
| 2715788        | EB 80- DIK WH | Cross connector/bridge, Number of positions: 80, Color: white |

## Diagrams/Drawings

Circuit diagram



**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



© 2010 Phoenix Contact  
Technical modifications reserved;