



#### General ordering data

|                  |                                               |
|------------------|-----------------------------------------------|
| Order No.        | 8028300000                                    |
| Part designation | DKO 35 24VDC 3KHZ E:U                         |
| Version          | Optos, 5...48 V DC , 20 mA , Screw connection |
| EAN              | 4008190183158                                 |
| Qty.             | 10 pc(s).                                     |

#### Dimensions

|                      |                     |
|----------------------|---------------------|
| Clamping range, nom. | 4 mm <sup>2</sup>   |
| Clamping range, min. | 0.5 mm <sup>2</sup> |
| Clamping range, max. | 4 mm <sup>2</sup>   |

#### temperature

|                                   |                 |
|-----------------------------------|-----------------|
| Ambient temperature (operational) | -25 °C...+40 °C |
| Storage temperature               | -40 °C...+85 °C |

#### Approvals

|                      |              |
|----------------------|--------------|
| Approvals institutes | GOSTME25; CE |
|----------------------|--------------|

#### Control side

|                         |                       |
|-------------------------|-----------------------|
| Input frequency, max.   | 3 kHz                 |
| Power rating            | Max. 360 mW           |
| Rated auxiliary voltage | No                    |
| Rated control voltage   | 24 V DC $\pm 10$ %    |
| making voltage          | approx. 19 V / 7.5 mA |

#### General data

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Conductor cross-section, flexible, max. | 4 mm <sup>2</sup>                          |
| Solid, max.                             | 4 mm <sup>2</sup>                          |
| Standards                               | EN 50178                                   |
| Humidity                                | 40 °C / 93% rel. humidity, no condensation |
| Conductor connection system             | Screw connection                           |
| DIN Rail compatibility                  | TS 35                                      |

**Insulation coordination (EN 50 178)**

Clearance and creepage distances for control/load  $\geq 4$  mm side

|                                        |       |
|----------------------------------------|-------|
| Overvoltage category                   | III   |
| Pollution severity                     | 2     |
| Protective separation acc. to VDE 0106 | No    |
| Rated impulse withstand voltage        | 4 kV  |
| Rated voltage                          | 300 V |

**Load side**

|                            |                    |
|----------------------------|--------------------|
| Protective circuit         | Diode              |
| Pulse duty factor (gen.)   | 1:2                |
| Rated auxiliary voltage    | No                 |
| Rated switching current    | 20 mA              |
| Rated switching voltage    | 5...48 V DC        |
| Short-circuit-proof        | No                 |
| Status indicator load side | Green LED          |
| Switch-off delay           | Approx. 80 $\mu$ s |
| Switch-on delay            | Approx. 50 $\mu$ s |
| Voltage drop at max. load  | $\leq 900$ mV      |

**Classifications**

|            |             |
|------------|-------------|
| ETIM20     | EC001504    |
| ETIM30     | EC001504    |
| eClass 4.1 | 27-27-09-00 |
| eClass 5.0 | 27-27-09-90 |
| eClass 5.1 | 27-27-09-90 |
| eClass 6.0 | 27-14-11-20 |

**Similar products**

| Order No.  | Part designation      | Version                                        |
|------------|-----------------------|------------------------------------------------|
| 8018630000 | DKO 35 5VDC           | Optos, 5...48 V DC , 20 mA , Screw connection  |
| 8019590000 | DKO 35 24VDC E:U      | Optos, 5...48 V DC , 500 mA , Screw connection |
| 8248790000 | DKO 35 24VDC 3KHZ E:U | Optos, 5...48 V DC , 20 mA , Screw connection  |
| 8215630000 | DKO 35 24VDC E:O      | Optos, 5...48 V DC , 500 mA , Screw connection |
| 8008150000 | DKO 35 24VUC          | Optos, 5...48 V DC , 20 mA , Screw connection  |
| 8215640000 | DKO 35 24VDC 3KHZ E:O | Optos, 5...48 V DC , 20 mA , Screw connection  |
| 8025910000 | DKO 35 48VUC          | Optos, 5...48 V DC , 100 mA , Screw connection |
| 8077860000 | DKO 35 115VUC         | Optos, 5...48 V DC , 50 mA , Screw connection  |
| 8008160000 | DKO 35 230VUC         | Optos, 5...48 V DC , 20 mA , Screw connection  |