# UDK 4-DUR 499 - Component terminal block

2775250

https://www.phoenixcontact.com/us/products/2775250

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Component terminal block, nom. voltage: 630 V, nominal current: 32 A, number of connections: 4, connection method: Screw connection, Rated cross section: 4 $mm^2$, 1 level, cross section: 0.2 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

## Your advantages

- The four-conductor connection enables user-friendly wiring
- A voltage signal pick-off can be implemented in the measuring line using this terminal block, enabling the signal to be used as an analog signal for process computers
- The constant circuits common in process automation transmit the measured values as a load-independent current of 0 ... 20 mA
- The lower level is assigned to the measuring line while the upper level is used for voltage pick-off via the 499 ohm resistor

## Commercial data

| | |
|---|---|
| Item number | 2775250 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE12 |
| Product key | BE1273 |
| GTIN | 4046356342995 |
| Weight per piece (including packing) | 15.494 g |
| Weight per piece (excluding packing) | 15.494 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

## UDK 4-DUR 499 - Component terminal block

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## Technical data

### Product properties

| | |
|---|---|
| Product type | Component terminal block |
| Number of connections | 4 |
| Number of rows | 1 |
| Potentials | 1 |

#### Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 6 kV |

### Connection data

| | |
|---|---|
| Number of connections per level | 4 |
| Nominal cross section | 4 mm² |

#### 1 level

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.5 ... 0.6 Nm |
| Stripping length | 8 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.2 mm² ... 6 mm² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 4 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 1.5 mm² |
| Cross-section with insertion bridge, rigid | 2.5 mm² |
| Cross-section with insertion bridge, flexible | 2.5 mm² |
| 2 conductors with same cross section, solid | 0.2 mm² ... 1 mm² |
| 2 conductors with same cross section, flexible | 0.2 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm² ... 1.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal current | 32 A (the current is determined by the component used) |
| Maximum load current | 10 mA (the current is determined by the component used) |
| Nominal voltage | 630 V |
| Nominal cross section | 4 mm² |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| End cover width | 1.5 mm |
| Height | 63.5 mm |
| Depth on NS 32 | 52 mm |
| Depth on NS 35/7,5 | 47 mm |
| Depth on NS 35/15 | 54.5 mm |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V2 |
| Insulating material group | I |
| Insulating material | PA |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 125 °C |

## Electrical tests

### Surge voltage test

| | |
|---|---|
| Test voltage setpoint | 9.8 kV |
| Result | Test passed |

### Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 3 kV |
| Result | Test passed |

## Mechanical properties

### Mechanical data

| | |
|---|---|
| Open side panel | Yes |

## Mechanical tests

### Mechanical strength

| | |
|---|---|
| Result | Test passed |

### Attachment on the carrier

| | |
|---|---|
| DIN rail/fixing support | NS 35 |
| Test force setpoint | 5 N |
| Result | Test passed |

### Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.2 mm² / 0.2 kg |
| | 4 mm² / 0.9 kg |
| | 6 mm² / 1.4 kg |
| Result | Test passed |

## Environmental and real-life conditions

### Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |
| Result | Test passed |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

| | |
|---|---|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |
| | NS 32 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2775250

**EAC**
Approval ID: KZ7500651131219505

# UDK 4-DUR 499 - Component terminal block

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250114 |
| ECLASS-15.0 | 27250114 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC000903 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

### EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

### China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: n/a) |
| SCIP | 48021552-7f38-4663-9fc7-65690230eb1a |

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