

https://www.phoenixcontact.com/sg/products/2775375



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Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

#### Your advantages

- · Two connection points on each side to accommodate several conductors
- · Double bridge shaft enables individual potential distribution and supply

#### Commercial data

| Item number                          | 2775375                        |
|--------------------------------------|--------------------------------|
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | 0120*                          |
| Product key                          | BE1213                         |
| Catalog page                         | Page 470 (C-1-2019)            |
| GTIN                                 | 4017918068578                  |
| Weight per piece (including packing) | 12.76 g                        |
| Weight per piece (excluding packing) | 11.58 g                        |
| Customs tariff number                | 85369010                       |
| Country of origin                    | CN                             |



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#### Technical data

#### Product properties

| Product type               | Multi-conductor terminal block |
|----------------------------|--------------------------------|
| Product family             | UDK                            |
| Number of connections      | 4                              |
| Number of rows             | 2                              |
| Potentials                 | 1                              |
| Insulation characteristics |                                |
| Overvoltage category       | III                            |

# Electrical properties

Degree of pollution

| Rated surge voltage                             | 6 kV   |
|---|--------|
| Maximum power dissipation for nominal condition | 0.77 W |

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#### Connection data

| Number of connections per level   | 4  |
|---|--|
| Nominal cross section   | 2.5 mm <sup>2</sup>  |
| Screw thread  | M3   |
| Tightening torque   | 0.5 0.6 Nm   |
| Stripping length  | 8 mm   |
| Internal cylindrical gage   | A3   |
| Connection in acc. with standard  | IEC 60947-7-1  |
| Conductor cross section rigid   | 0.2 mm² 4 mm²  |
| Cross section AWG   | 24 12 (converted acc. to IEC)  |
| Conductor cross section flexible  | 0.2 mm² 2.5 mm²  |
| Conductor cross section, flexible [AWG]   | 24 14 (converted acc. to IEC)  |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm² 2.5 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   | 24 A (with 4 mm² conductor cross section)  |
| Maximum load current  | 32 A (in case of a 4 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage   | 500 V  |
| Nominal cross section   | 2.5 mm²  |



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#### **Dimensions**

| Width              | 5.2 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                           | V0              |
| Insulating material group  | 1               |
| Insulating material  | PA              |
| Static insulating material application in cold                   | -60 °C          |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C          |
| Fire protection for rail vehicles (DIN EN 45545-2) R22           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R24           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R26           | HL 1 - HL 3     |
| Surface flammability NFPA 130 (ASTM E 162)                       | passed          |
| Specific optical density of smoke NFPA 130 (ASTM E 662)          | passed          |
| Smoke gas toxicity NFPA 130 (SMP 800C)                           | passed          |

#### Electrical tests

#### Surge voltage test

| •                                 |                                |
|-----------------------------------|--------------------------------|
| Test voltage setpoint             | 7.3 kV                         |
| Result                            | Test passed                    |
| Temperature-rise test             |                                |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |

| Requirement temperature-rise test    | Increase in temperature ≤ 45 K |
|--------------------------------------|--------------------------------|
| Result                               | Test passed                    |
| Short-time withstand current 2.5 mm² | 0.3 kA                         |
| Result                               | Test passed                    |
|                                      |                                |

#### Power-frequency withstand voltage

| Tower mediania voltage |             |
|------------------------|-------------|
| Test voltage setpoint  | 1.89 kV     |
| Result                 | Test passed |

#### Mechanical properties

| Mechanical data |     |
|-----------------|-----|
| Open side panel | Yes |

#### Mechanical tests



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Mechanical strength



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|--|------------------|
| Result   | Test passed      |
| Attachment on the carrier                                |                  |
| DIN rail/fixing support                                  | NS 32/NS 35      |
| Test force setpoint                                      | 1 N              |
| Result   | Test passed      |
| Test for conductor damage and slackening                 |                  |
| Rotation speed   | 10 (+/- 2) rpm   |
| Revolutions  | 135              |
| Conductor cross section/weight                           | 0.2 mm² / 0.2 kg |
|  | 2.5 mm² / 0.7 kg |
|  | 4 mm² / 0.9 kg   |
| Result   | Test passed      |
| nvironmental and real-life conditions  Needle-flame test |                  |
| Time of exposure   | 30 s             |
| Result   | Test passed      |
|  |                  |

| icculc-liame test                        |  |
|--|--|
| Time of exposure                         | 30 s   |
| Result                                   | Test passed  |
| mbient 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     |  |  |  |

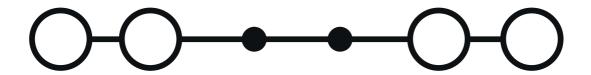


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### Drawings

Circuit diagram





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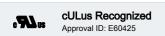
#### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/2775375

| CSA Approval ID: 13631 |                                |                                |                   |                               |
|------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                        | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| Use group B            |                                |                                |                   |                               |
|                        | 300 V                          | 20 A                           | 28 - 12           | -                             |
| Use group C            |                                |                                |                   |                               |
|                        | 300 V                          | 20 A                           | 28 - 12           | -                             |

| EHC  | EAC                      |
|------|--------------------------|
| LIIL | Approval ID: EACKZ 08593 |







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### Classifications

#### **ECLASS**

|        | ECLASS-11.0 | 27141120 |
|--------|-------------|----------|
|        | ECLASS-13.0 | 27250101 |
| ETIM   |             |          |
|        | ETIM 9.0    | EC000897 |
| UNSPSC |             |          |
|        | UNSPSC 21.0 | 39121400 |



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### 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: 7439-92-1)  |
| SCIP                                    | 49c60520-49af-4b2e-a629-76e5aa1b3a50  |

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