

UHK 4-FS/FS(12-2,8-0,8) - Feed-through terminal block



2017224

<https://www.phoenixcontact.com/sg/products/2017224>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 40 A, number of connections: 12, connection method: Spade connection, 1 level, cross section: 0.5 mm² - 6 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

Your advantages

- Designation read from the front
- User-friendly operation, i.e., unobstructed view of plugs, good access to plugs, and fast connection check
- Attractive appearance due to the elegant conductor conduit in the lateral cable ducts
- Terminal blocks and bridge connections eliminated

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2017224 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | 0100* |
| Product key | BE511X |
| Catalog page | Page 535 (C-1-2019) |
| GTIN | 4017918052683 |
| Weight per piece (including packing) | 9.207 g |
| Weight per piece (excluding packing) | 9.017 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | Feed-through terminal block |
| Number of connections | 12 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

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

Electrical properties

| | |
|---|------|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 0 W |

Connection data

| | |
|---------------------------------|----|
| Number of connections per level | 12 |
|---------------------------------|----|

1 level

| | |
|--|--|
| Spade connection | 6.3/2.8 x 0.8 mm |
| Conductor cross section rigid | 0.5 mm ² ... 6 mm ² |
| Cross section AWG | 20 ... 10 (converted acc. to IEC) |
| Conductor cross section flexible | 0.5 mm ² ... 6 mm ² |
| Conductor cross section, flexible [AWG] | 20 ... 10 (converted acc. to IEC) |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm ² ... 6 mm ² |
| Nominal current | 40 A (dependent on the slip-on connection sleeve) |
| Maximum load current | 40 A (dependent on the slip-on connection sleeve) |
| Nominal voltage | 800 V (voltage data for slip-on connections in acc. with EN 61210 are also dependent on nominal size, material, insulation of the sleeve and conductor cross section.) |

Dimensions

| | |
|--------------------|---------|
| Width | 6.2 mm |
| End cover width | 2.3 mm |
| Height | 54 mm |
| Depth on NS 32 | 56.5 mm |
| Depth on NS 35/7,5 | 51.5 mm |
| Depth on NS 35/15 | 59 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V2 |
| Insulating material group | I |
| Insulating material | PA |

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| | |
|---|-------------|
| Static insulating material application in cold | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| 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 |

Mechanical properties

Mechanical data

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

Environmental and real-life conditions

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 % |

Mounting

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

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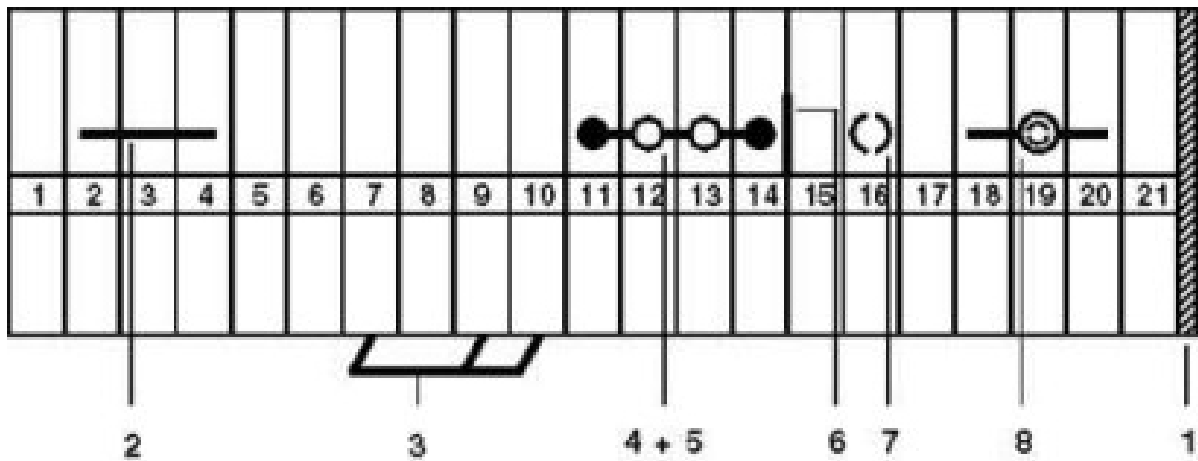


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Drawings

Circuit diagram



- 1 = cover
- 2 = fixed bridge
- 3 = insertion bridge
- 4 = isolator bridge bar
- 5 = bridge bar isolator
- 6 = separating plate
- 7 = partition plate
- 8 = test plug socket

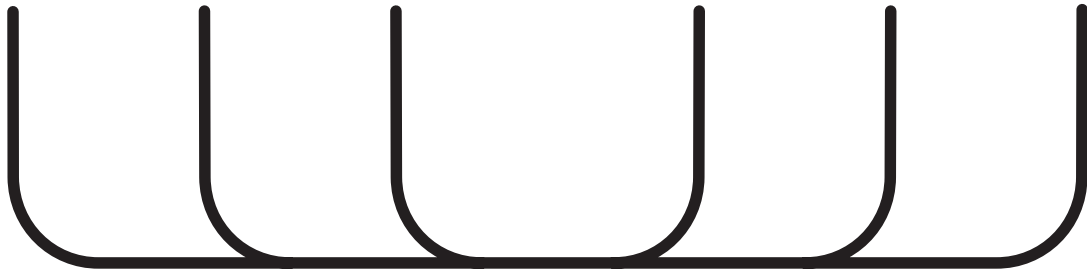
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/2017224>

|  CSA Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 600 V | 20 A | 22 - 14 | - |

|  UL Recognized Approval ID: E60425 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Use group B | 250 V | 25 A | 28 - 12 | - |
| Use group C | 150 V | 25 A | 28 - 12 | - |

|  EAC Approval ID: RU C-DE.BL08.B.00541 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

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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, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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105 Eunos Avenue 3, #04-00
Singapore 409836
+65 6228 4900
marketing@phoenixcontact.com.sg