

TB-EE-UTF 2,5-HESI (5X20) - Fuse modular terminal block



1428641

<https://www.phoenixcontact.com/sg/products/1428641>

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Fuse terminal block, fuse type: G / 5 x 20, nominal operating voltage: 500 V, rated current: 6.3 A, number of positions: 1, nominal cross-section: 2.5 mm², cross-section: 0.5 mm²- 2.5 mm², mounting types: NS 35/7,5, NS 35/15, color: dark gray

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1428641 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Sales key | ***** |
| Product key | BEK134 |
| GTIN | 4063151794132 |
| Weight per piece (including packing) | 12.5 g |
| Weight per piece (excluding packing) | 12.5 g |
| Country of origin | CN |

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Technical data

Notes

General

| Note | |
|------|--|
| | The current is determined by the fuse used, the voltage by the fuse or selected light indicator. |
| | When applying the fuse terminal blocks in compound arrangement, the end cover TB-EE-D-UTF (1428645) must be installed with every fuse terminal block or modular terminal blocks of identical contour must be used between each individual fuse terminal block. |
| | When using partition plates between the fuse terminal blocks, FBS bridges cannot be used due to the separation. |

Product properties

| | |
|-----------------------|---------------------|
| Product type | Fuse terminal block |
| Number of positions | 1 |
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

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

Electrical properties

| | |
|---------------------|------------|
| Rated surge voltage | 6 kV |
| Fuse | G / 5 x 20 |

Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 2.5 mm ² |
| Rated cross section AWG | 12 |
| Screw thread | M2.5 |
| Tightening torque | 0.4 ... 0.5 Nm |
| Stripping length | 7 mm |
| Internal cylindrical gage | A2 B2 |
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross section rigid | 0.5 mm ² ... 2.5 mm ² |
| Cross section AWG | 20 ... 14 (converted acc. to IEC) |
| Conductor cross section flexible | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible [AWG] | 20 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm ² ... 2.5 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm ² ... 2.5 mm ² |

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| | |
|-----------------------|--|
| Nominal current | 6.3 A (the current is determined by the fuse used) |
| Maximum load current | 6.3 A |
| Nominal voltage | 500 V |
| Nominal cross section | 2.5 mm ² |

Dimensions

| | |
|-------|--------|
| Width | 6.2 mm |
|-------|--------|

Material specifications

| | |
|--|-------------|
| Color | dark gray |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| 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 |

Mechanical properties

Mechanical data

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

Environmental and real-life conditions

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s ²) ² /Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |

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| | |
|-----------------|-----------------------------------|
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| 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 |
| 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 60947-7-3 |
|----------------------------------|---------------|

Mounting

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

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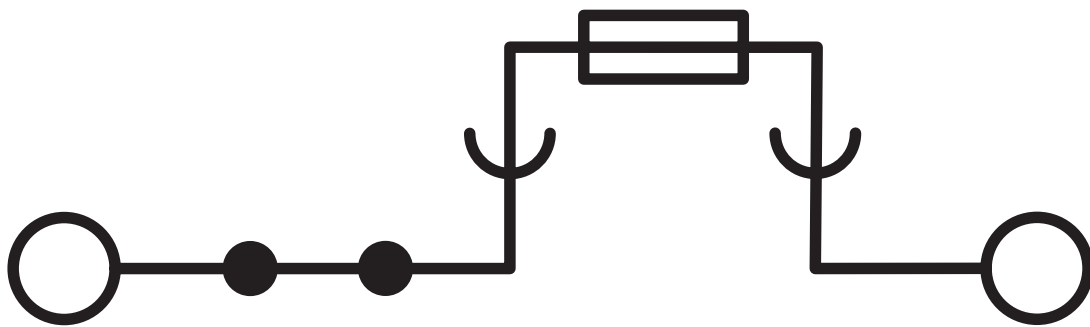


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Drawings

Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141116 |
| ECLASS-12.0 | 27141116 |
| ECLASS-13.0 | 27250113 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000899 |
|----------|----------|

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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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