

UT 4-L/HESILED 24 (5X20) 120KOHM - Fuse modular terminal block



3214366

<https://www.phoenixcontact.com/us/products/3214366>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 24 V, Thermal continuous current I_{th} : 28 A, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.14 mm²- 6 mm², connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.14 mm²- 6 mm², mounting type: NS 35/7,5, NS 35/15, color: black

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3214366 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1136 |
| GTIN | 4055626030777 |
| Weight per piece (including packing) | 32.89 g |
| Weight per piece (excluding packing) | 32.89 g |
| Customs tariff number | 85369095 |
| Country of origin | PL |

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Technical data

Notes

| | |
|---------|---|
| General | The current is determined by the fuse used, the voltage by the selected LED. If the fuse is faulty, the downstream circuit will not be disconnected. |
|---------|---|

Product properties

| | |
|-----------------------|---------------------|
| Product type | Fuse terminal block |
| Product family | UT |
| Number of connections | 4 |
| Number of rows | 2 |
| Potentials | 2 |

Insulation characteristics

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

Electrical properties

| | |
|---|--|
| Fuse type | Glass / ceramics / ... |
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 W |
| Fuse | G / 5 x 20 |
| LED voltage range | 12 V AC/DC ... 30 V AC/DC |
| LED current range | 0.31 mA ... 0.95 mA |
| Maximum power dissipation | max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload) max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload) max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit) max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit) |

Input data

| | |
|-------------------|---------------------------|
| LED voltage range | 12 V AC/DC ... 30 V AC/DC |
|-------------------|---------------------------|

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm ² |

Level 1

| | |
|-------------------|------------------|
| Connection method | Screw connection |
| Screw thread | M3 |

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| | |
|---|--|
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Internal cylindrical gage | A4 |
| | B3 |
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-3 |
| Conductor cross-section rigid | 0.14 mm ² ... 6 mm ² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm ² ... 6 mm ² |
| Conductor cross-section, flexible [AWG] | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm ² ... 6 mm ² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm ² ... 4 mm ² |
| 2 conductors with same cross section, solid | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1.5 mm ² |
| Thermal continuous current I_{th} | 28 A |
| Maximum load current | 36 A |
| Nominal voltage | 24 V (the voltage is determined by the light indicator.) |
| Nominal cross section | 4 mm ² |

Level 2

| | |
|---|--|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-3 |
| Conductor cross-section rigid | 0.14 mm ² ... 6 mm ² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm ² ... 6 mm ² |
| Conductor cross-section, flexible [AWG] | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm ² ... 4 mm ² |
| 2 conductors with same cross section, solid | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1.5 mm ² |
| Nominal current | 6.3 A |
| Maximum load current | 6.3 A (the current is determined by the fuse used) |

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| | |
|-----------------------|--|
| Nominal voltage | 24 V (the voltage is determined by the light indicator.) |
| Nominal cross section | 4 mm ² |

Ex data

Rated data (ATEX/IECEx)

| | |
|-----------------------------|---|
| Identification | Ex II 3 G Ex ec IIC Gc |
| Operating temperature range | -60 °C ... 130 °C |
| Ex-certified accessories | 1205053 SZS 0,6X3,5 3022276 CLIPFIX 35-5 3022218 CLIPFIX 35 |
| output | (Permanent) |

Ex connection data General

| | |
|--|--|
| Torque range | 0.6 Nm ... 0.8 Nm |
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.14 mm ² ... 6 mm ² |
| Connection capacity AWG | 26 ... 10 |
| Connection capacity flexible | 0.14 mm ² ... 6 mm ² |
| Connection capacity AWG | 26 ... 10 |
| 2 conductors with same cross section, solid | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG rigid | 26 ... 16 |
| 2 conductors with same cross section, stranded | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG flexible | 26 ... 16 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 4 mm ² |
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 26 ... 12 |
| output | (Permanent) |

Ex level Level 2

| | |
|----------------------|--------------------------------|
| Rated voltage | 500 V |
| Rated current | 20 A (4 mm ²) |
| Maximum load current | 20 A (6 mm ²) |
| Contact resistance | 0.6 mΩ |
| Temperature increase | 40 K (20 A/4 mm ²) |
| output | (Permanent) |

Ex level Level 3

| | |
|----------------------|----------------------------|
| Rated voltage | 250 V |
| Rated current | 6.3 A (4 mm ²) |
| Maximum load current | 6.3 A (6 mm ²) |

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| | |
|--------------------|------|
| Contact resistance | 5 mΩ |
|--------------------|------|

Dimensions

| | |
|--------------------|---------|
| Width | 6.2 mm |
| Height | 92.7 mm |
| Depth | 94.5 mm |
| Depth on NS 35/7,5 | 88.9 mm |
| Depth on NS 35/15 | 96.4 mm |

Material specifications

| | |
|--|------------------|
| Color | black (RAL 9005) |
| 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 | No |

Environmental and real-life conditions

| | |
|-----------------------------|--|
| Oscillation/broadband noise | |
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | f ₁ = 5 Hz to f ₂ = 150 Hz |
| ASD level | 0.964 (m/s ²) ² /Hz |
| Acceleration | 0.58g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

| | |
|---------------|-------------------------------------|
| Shocks | |
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |

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| | |
|--------------------------------|-----------------------------------|
| Acceleration | 5g |
| Shock duration | 30 ms |
| Number of shocks per direction | 3 |
| 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 (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/IEC 60947-7-3 |
| | IEC 60947-7-1/IEC 60947-7-3 |

Mounting

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

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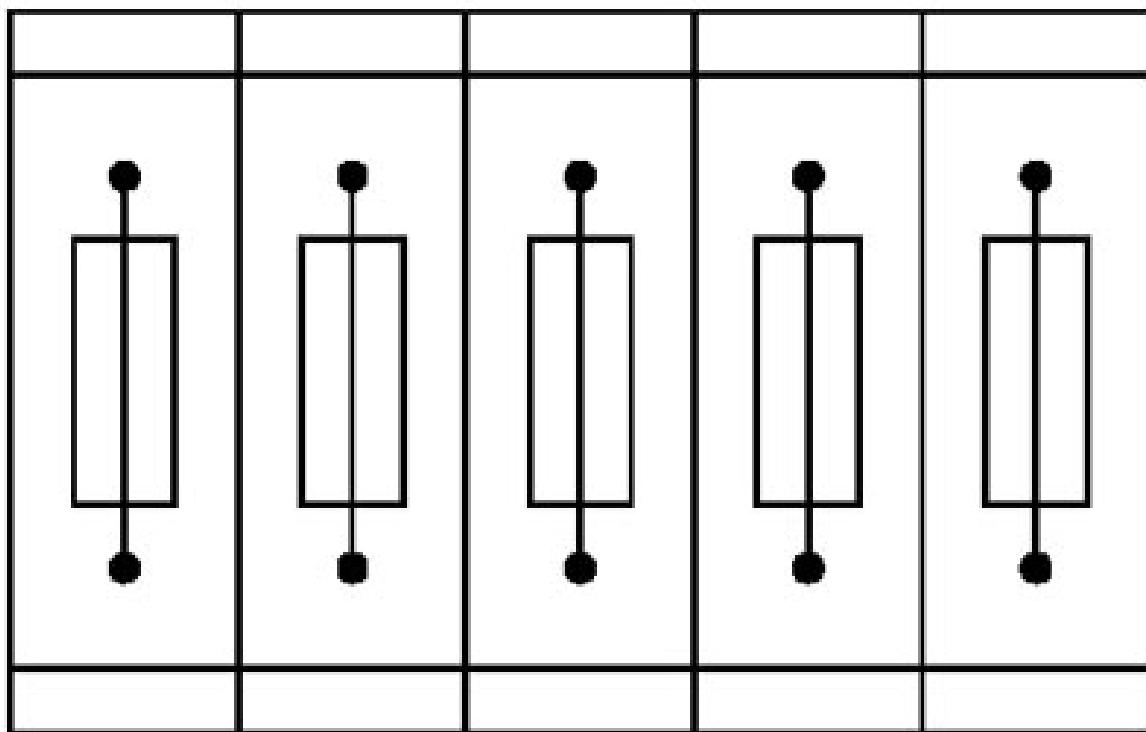


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Drawings

Application drawing



Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

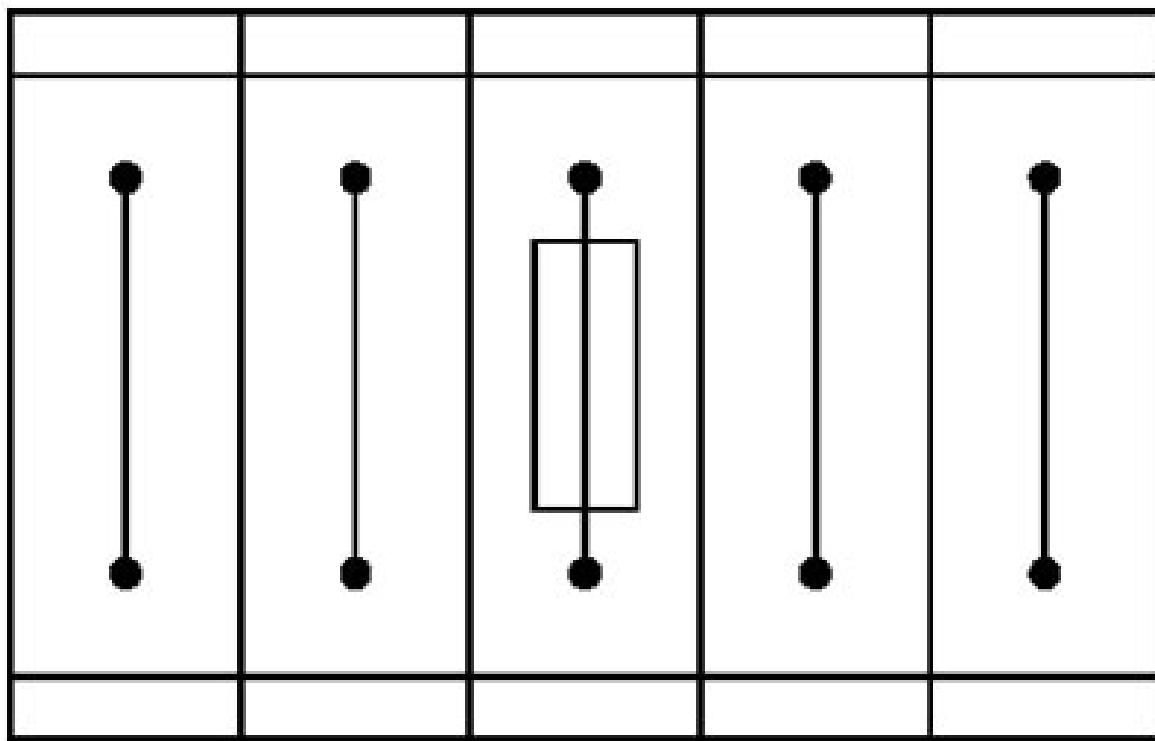
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Application drawing



Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

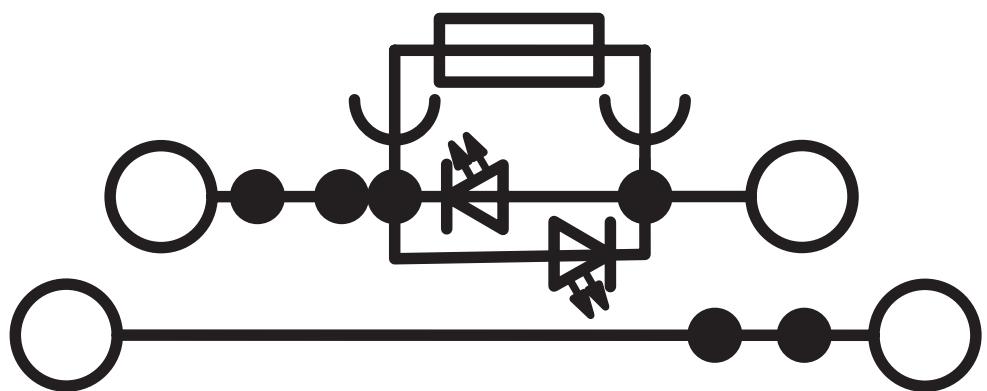
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Circuit diagram



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Approvals

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| | | CSA | | |
|-------------|--|-----------------------|-----------------------|-------------------|
| | | Approval ID: 13631 | | |
| | | Nominal voltage U_N | Nominal current I_N | Cross section AWG |
| B | | | | |
| upper level | | 300 V | 16 A | 26 - 10 |
| lower level | | 300 V | 20 A | 26 - 10 |
| C | | | | |
| upper level | | 300 V | 16 A | 26 - 10 |
| lower level | | 300 V | 20 A | 26 - 10 |

| | | cULus Recognized | | |
|-------------|--|-----------------------|-----------------------|-------------------|
| | | Approval ID: E60425 | | |
| | | Nominal voltage U_N | Nominal current I_N | Cross section AWG |
| B | | | | |
| upper level | | 300 V | 16 A | 26 - 10 |
| lower level | | 300 V | 20 A | 26 - 10 |
| C | | | | |
| upper level | | 300 V | 16 A | 26 - 10 |
| lower level | | 300 V | 20 A | 26 - 10 |

| | | cUL Recognized | | |
|--------------------------|--|-----------------------|-----------------------|-------------------|
| | | Approval ID: E192998 | | |
| | | Nominal voltage U_N | Nominal current I_N | Cross section AWG |
| keine | | | | |
| with cartridge fuse-link | | 300 V | 16 A | 26 - 10 |
| middle level | | 300 V | 20 A | 26 - 10 |

| | | IECEx | | |
|--|--|--------------------------------|--|--|
| | | Approval ID: IECExKIWA14.0014U | | |

| | | UL Recognized | | |
|--------------------------|--|-----------------------|-----------------------|-------------------|
| | | Approval ID: E192998 | | |
| | | Nominal voltage U_N | Nominal current I_N | Cross section AWG |
| keine | | | | |
| with cartridge fuse-link | | 300 V | 16 A | 26 - 10 |

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| | | | | |
|--------------|-------|------|---------|---|
| middle level | 300 V | 20 A | 26 - 10 | - |
|--------------|-------|------|---------|---|



CCC

Approval ID: 2020322313000632



ATEX

Approval ID: KIWA14ATEX0025U



UKCA-Ex

Approval ID: CSAE 21UKEX3606U



EAC Ex

Approval ID: KZ 7500525010101950

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

ETIM

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

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 | 5c3502e8-0faa-4839-8601-6a8e386b50e3 |

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