

# UT 4-PE/L/HESILED 60 (5X20) - Fuse modular terminal block



3214322

<https://www.phoenixcontact.com/us/products/3214322>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 60 V, Thermal continuous current  $I_{th}$ : 30 A, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 6 mm<sup>2</sup>, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3214322       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1136        |
| GTIN                                 | 4046356895675 |
| Weight per piece (including packing) | 37.097 g      |
| Weight per piece (excluding packing) | 37.097 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.<br>If the fuse is faulty, the downstream circuit will not be disconnected. |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Product family        | UT                    |
| Number of connections | 5                     |
| Number of rows        | 3                     |
| Potentials            | 3                     |

### 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                               | 30 V AC ... 60 V AC                                                                                          |
| LED current range                               | 0.4 mA ... 0.86 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 | 30 V AC ... 60 V AC |
|-------------------|---------------------|

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 2                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

### Level 1

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Connection method | Screw connection                                               |
| Screw thread      | M3                                                             |
| Note              | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque | 0.6 ... 0.8 Nm                                                 |

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|                                                                                           |                                                          |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Stripping length                                                                          | 9 mm                                                     |
| Internal cylindrical gage                                                                 | A4                                                       |
|                                                                                           | B3                                                       |
| Connection in acc. with standard                                                          | IEC 60947-7-1/IEC 60947-7-2                              |
| Conductor cross-section rigid                                                             | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>               |
| Cross section AWG                                                                         | 26 ... 10 (converted acc. to IEC)                        |
| Conductor cross-section flexible                                                          | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>               |
| Conductor cross-section, flexible [AWG]                                                   | 26 ... 10 (converted acc. to IEC)                        |
| Conductor cross-section flexible ultrasound-compressed                                    | 0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>               |
| Conductor cross-section, flexible [AWG] ultrasound-compressed                             | 22 ... 10 (converted acc. to IEC)                        |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>               |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>               |
| 2 conductors with same cross section, solid                                               | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>             |
| 2 conductors with same cross section, flexible                                            | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>             |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>             |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Thermal continuous current $I_{th}$                                                       | 30 A                                                     |
| Maximum load current                                                                      | 36 A (with 6 mm <sup>2</sup> conductor cross-section)    |
| Nominal voltage                                                                           | 60 V (the voltage is determined by the light indicator.) |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                        |

## Level 2

|                                                                                           |                                                    |
|-------------------------------------------------------------------------------------------|----------------------------------------------------|
| Connection method                                                                         | Screw connection                                   |
| Screw thread                                                                              | M3                                                 |
| Tightening torque                                                                         | 0.6 ... 0.8 Nm                                     |
| Stripping length                                                                          | 9 mm                                               |
| Internal cylindrical gage                                                                 | A4                                                 |
|                                                                                           | B3                                                 |
| Connection in acc. with standard                                                          | IEC 60947-7-3                                      |
| Conductor cross-section rigid                                                             | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>         |
| Cross section AWG                                                                         | 26 ... 10 (converted acc. to IEC)                  |
| Conductor cross-section flexible                                                          | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>         |
| Conductor cross-section, flexible [AWG]                                                   | 26 ... 10 (converted acc. to IEC)                  |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>         |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>         |
| 2 conductors with same cross section, solid                                               | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>       |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>       |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>        |
| Nominal current                                                                           | 6.3 A                                              |
| Maximum load current                                                                      | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage                                                                           | 60 V (the voltage is determined by the fuse used)  |

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|                       |       |
|-----------------------|-------|
| Nominal cross section | 4 mm² |
|-----------------------|-------|

## 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 mm²                |
| Rated cross section AWG                                                              | 12                   |
| Connection capacity rigid                                                            | 0.14 mm² ... 6 mm²   |
| Connection capacity AWG                                                              | 26 ... 10            |
| Connection capacity flexible                                                         | 0.14 mm² ... 6 mm²   |
| Connection capacity AWG                                                              | 26 ... 10            |
| 2 conductors with same cross section, solid                                          | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG rigid                                   | 26 ... 16            |
| 2 conductors with same cross section, stranded                                       | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG flexible                                | 26 ... 16            |
| Conductor cross-section flexible, with ferrule without plastic sleeve min.           | 0.14 mm²             |
| Conductor cross-section flexible, with ferrule without plastic sleeve max.           | 4 mm²                |
| 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 mm²)      |
| Maximum load current | 20 A (6 mm²)      |
| Contact resistance   | 0.6 mΩ            |
| Temperature increase | 40 K (20 A/4 mm²) |
| output               | (Permanent)       |

### Ex level Level 3

|                      |               |
|----------------------|---------------|
| Rated voltage        | 250 V         |
| Rated current        | 6.3 A (4 mm²) |
| Maximum load current | 6.3 A (6 mm²) |
| Contact resistance   | 5 mΩ          |

## Dimensions

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|                    |         |
|--------------------|---------|
| 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              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$   |
| ASD level              | $0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$       |
| 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                           |
| 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                         |

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## 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 60947-7-2 |
|                                  | IEC 60947-7-3               |

## Mounting

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

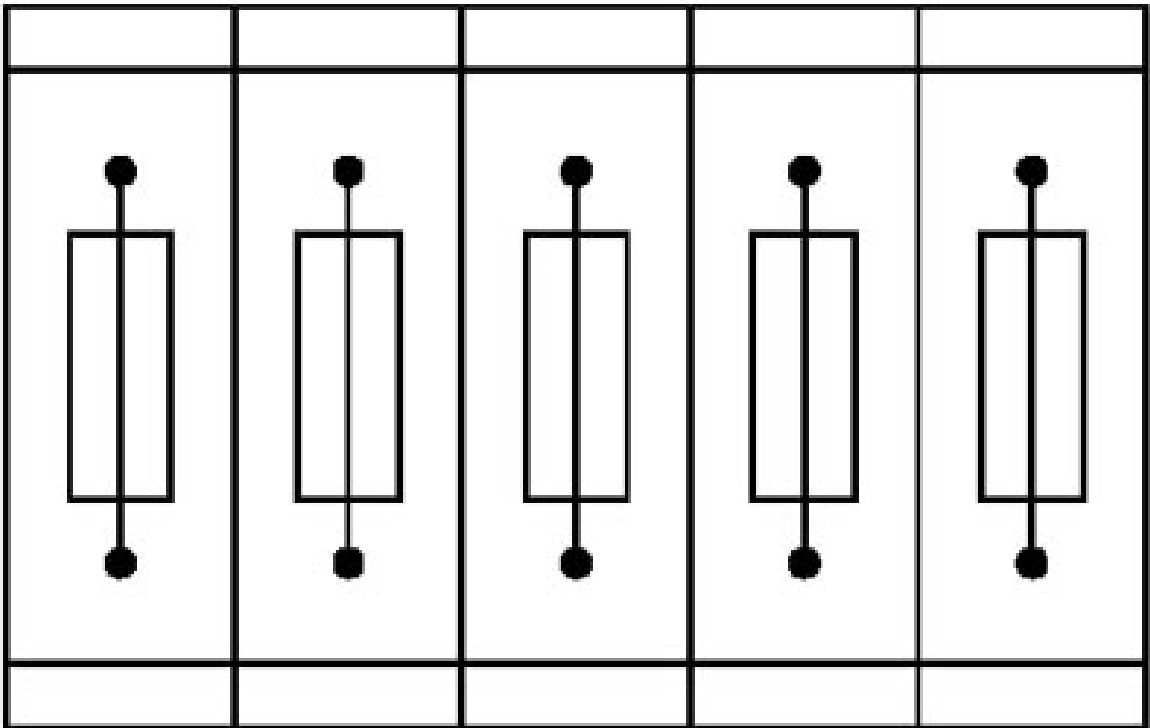
UT 4-PE/L/HESILED 60 (5X20) - Fuse modular terminal block



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<https://www.phoenixcontact.com/us/products/3214322>

Drawings

Application drawing



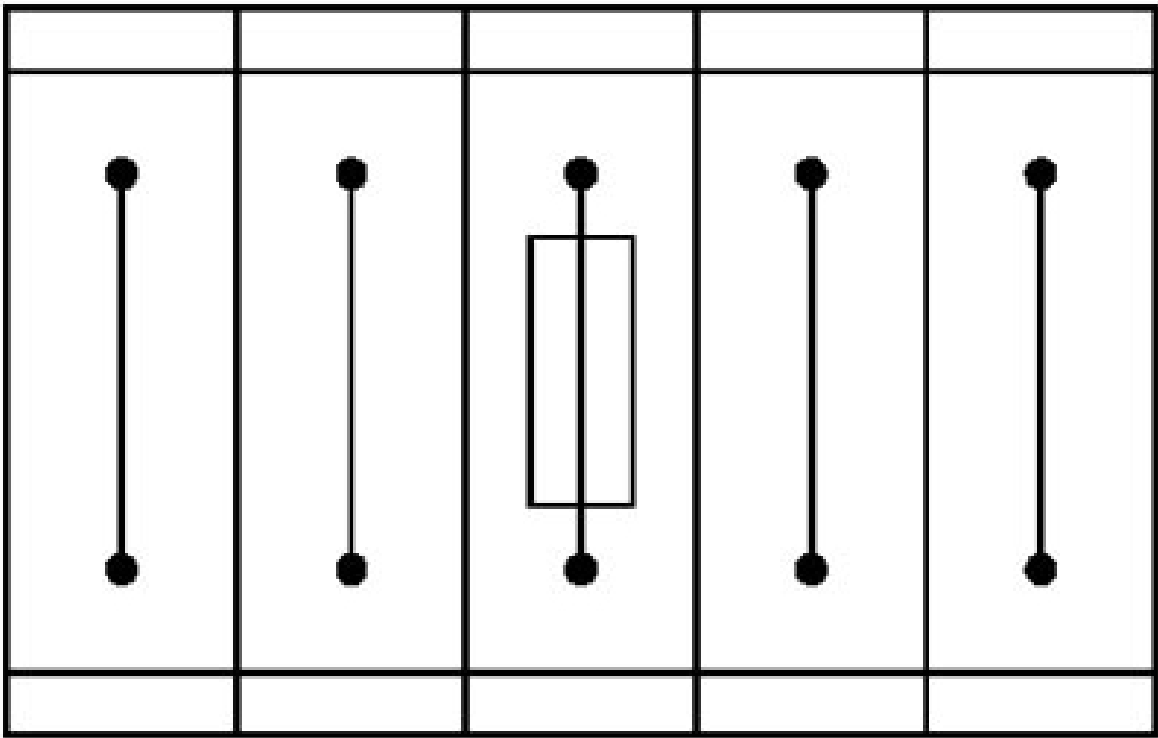
Fuse terminal blocks in interconnected arrangement,  
block consisting of 5 fuse terminal blocks

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Application drawing



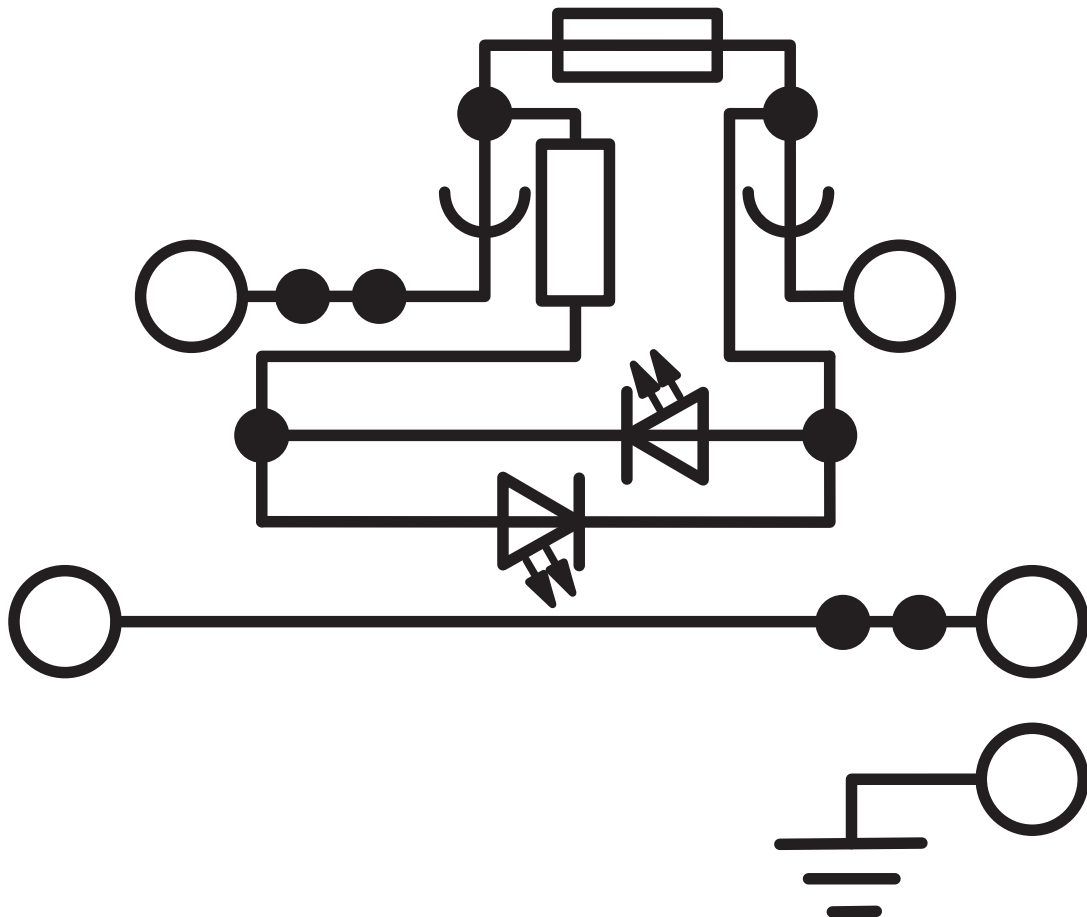
Fuse terminal block in single arrangement,  
block consisting of one fuse terminal block and 4 feed-through terminal blocks

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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3214322>



**cULus Recognized**  
Approval ID: E60425



**cULus Recognized**  
Approval ID: E60425



**cUL Recognized**  
Approval ID: E192998

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| PE connection            | -                     | -                     | 26 - 10           | 26 - 10                     |
| with cartridge fuse-link | 300 V                 | 16 A                  | 26 - 10           | 26 - 10                     |
| middle level             | 300 V                 | 20 A                  | 26 - 10           | 26 - 10                     |



**IECEx**  
Approval ID: IECExKIWA14.0014U



**UL Recognized**  
Approval ID: E192998

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| PE connection            | -                     | -                     | 26 - 10           | -                           |
| with cartridge fuse-link | 300 V                 | 16 A                  | 26 - 10           | -                           |
| middle level             | 300 V                 | 20 A                  | 26 - 10           | -                           |



**CCC**  
Approval ID: 2020322313000632



**ATEX**  
Approval ID: KIWA14ATEX0025U



**UKCA-EX**  
Approval ID: CSAE 21UKEX3606U

# UT 4-PE/L/HESILED 60 (5X20) - Fuse modular terminal block



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**EAC Ex**

Approval ID: KZ 7500525010101950

# UT 4-PE/L/HESILED 60 (5X20) - Fuse modular terminal block



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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                                | 74726d01-71c0-4bb6-9512-a36bf667f25a |

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