

# UKH 95-FE - High-current terminal block



3247054

<https://www.phoenixcontact.com/us/products/3247054>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 232 A, number of connections: 2, connection method: Screw connection, Rated cross section: 95 mm<sup>2</sup>, cross section: 25 mm<sup>2</sup> - 95 mm<sup>2</sup>, mounting type: NS 35/15, NS 32, color: black/yellow

## Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- Screw locking by means of spring-loaded elements in the clamping part
- Low contact resistance of the contact surface due to ribbing

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3247054       |
| Packing unit                         | 3 pc          |
| Minimum order quantity               | 3 pc          |
| Sales key                            | BE13          |
| Product key                          | BE1311        |
| GTIN                                 | 4046356707206 |
| Weight per piece (including packing) | 227.766 g     |
| Weight per piece (excluding packing) | 203 g         |
| Customs tariff number                | 85369010      |
| Country of origin                    | IN            |

## Technical data

### Notes

#### General

|      |   |
|------|---|
| Note | For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors. |
|------|---|

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | High current terminal block |
| Number of connections | 2                           |
| 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 | 7.54 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 95 mm <sup>2</sup> |

#### Level 1 above 1 below 1

|   |   |
|---|---|
| Connection method   | Screw connection                          |
| Screw thread  | M8  |
| Note  | Screws with hexagonal socket              |
| Tightening torque   | 15 ... 20 Nm                              |
| Stripping length  | 33 mm                                     |
| Connection in acc. with standard  | IEC 60947-7-1                             |
| Conductor cross-section rigid   | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Cross section AWG   | 2 ... 3/0 (converted acc. to IEC)         |
| Conductor cross-section flexible  | 35 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Conductor cross-section, flexible [AWG]   | 1/0 ... 3/0 (converted acc. to IEC)       |
| Conductor cross-section flexible (ferrule without plastic sleeve)                   | 35 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)                      | 35 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Cross-section with insertion bridge, rigid  | 95 mm <sup>2</sup>                        |
| Cross-section with insertion bridge, flexible                                       | 70 mm <sup>2</sup>                        |
| 2 conductors with same cross section, rigid   | 25 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| 2 conductors with same cross section, flexible                                      | 25 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 16 mm <sup>2</sup> ... 35 mm <sup>2</sup> |

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|                       |  |
|-----------------------|--|
| Nominal cross section | 95 mm <sup>2</sup>   |
| Nominal current       | 232 A  |
| Maximum load current  | 232 A  |
| Nominal voltage       | 1000 V   |
| Note                  | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |

## Ex data

### Rated data (ATEX/IECEX)

|                                   |  |
|-----------------------------------|--|
| Identification                    | ⊕ II 2 GD Ex eb IIC Gb                   |
| Operating temperature range       | -60 °C ... 110 °C                        |
| Ex-certified accessories          | 1201934 VDE-ISS 6                        |
|                                   | 1201659 E/AL-NS 32                       |
|                                   | 1201662 E/AL-NS 35                       |
| List of bridges                   | Insertion bridge / EB 2-25/UKH / 0201362 |
|                                   | Insertion bridge / EB 3-25/UKH / 0201375 |
| Bridge data                       | 177 A (95 mm <sup>2</sup> )              |
| Ex temperature increase           | 40 K (238.1 A / 95 mm <sup>2</sup> )     |
| at bridging with insertion bridge | 690 V                                    |
| Rated insulation voltage          | 800 V                                    |
| output                            | (Permanent)                              |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 880 V   |
| Rated current        | 216 A   |
| Maximum load current | 216 A   |
| Contact resistance   | 0.06 mΩ |

### Ex connection data General

|   |   |
|---|---|
| Torque range  | 15 Nm ... 20 Nm                           |
| Nominal cross section                                 | 95 mm <sup>2</sup>                        |
| Rated cross section AWG                               | 3/0                                       |
| Connection capacity rigid                             | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Connection capacity AWG                               | 4 ... 3/0                                 |
| Connection capacity flexible                          | 35 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Connection capacity AWG                               | 2 ... 3/0                                 |
| 2 conductors with same cross section, solid           | 25 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG rigid    | 4 ... 2                                   |
| 2 conductors with same cross section, stranded        | 25 mm <sup>2</sup> ... 35 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG flexible | 4 ... 2                                   |

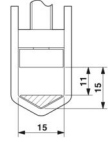
## Dimensions

# UKH 95-FE - High-current terminal block



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|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 25 mm  |
| Height              | 83 mm  |
| Depth on NS 32      | 95 mm  |
| Depth on NS 35/15   | 97.5 mm  |

## Material specifications

|  |   |
|--|---|
| Color                                  | multicolored (RAL -)<br>black (RAL 9005)<br>yellow (RAL 1018) |
| Flammability rating according to UL 94 | V0  |
| Insulating material group              | I   |
| Insulating material                    | PA  |

## Electrical tests

### Surge voltage test

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Temperature-rise test

|   |                                     |
|---|-------------------------------------|
| Requirement temperature-rise test               | Increase in temperature $\leq 45$ K |
| Result  | Test passed                         |
| Short-time withstand current 95 mm <sup>2</sup> | 11.4 kA                             |
| Result  | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV      |
| Result                | Test passed |

## Mechanical properties

### General

|                         |   |
|-------------------------|---|
| Terminal block mounting | 15 Nm ... 20 Nm (PE foot with mounting screw, M8) |
|-------------------------|---|

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
|-------------------------|-------------|

|  |                             |
|--|-----------------------------|
| Result                                   | Test passed                 |
| Test for conductor damage and slackening |                             |
| Rotation speed                           | 10 (+/- 2) rpm              |
| Revolutions                              | 135                         |
| Conductor cross-section/weight           | 25 mm <sup>2</sup> / 4.5 kg |
|  | 35 mm <sup>2</sup> / 6.8 kg |
|  | 95 mm <sup>2</sup> /14 kg   |
| Result                                   | Test passed                 |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### 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 <sup>2</sup> ) <sup>2</sup> /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                   | 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 |
|----------------------------------|---------------|

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## Mounting

|                         |   |
|-------------------------|---|
| Mounting type           | NS 35/15  |
|                         | NS 32   |
| Terminal block mounting | 15 Nm ... 20 Nm (PE foot with mounting screw, M8) |

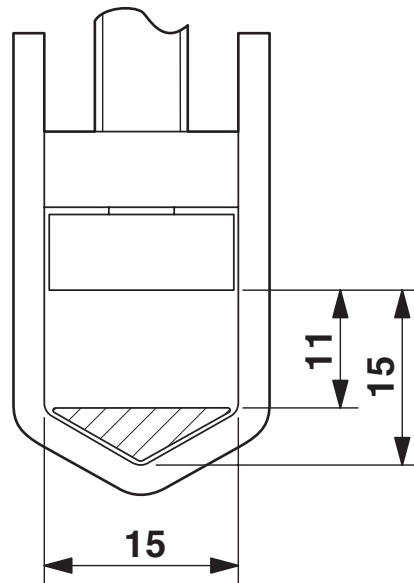
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## Drawings

Dimensional drawing



Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area

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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/3247054>


|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  |                       |                       |                   |                             |
|  | 600 V                 | 200 A                 | 2 - 4/0           | -                           |
| C  |                       |                       |                   |                             |
|  | 600 V                 | 200 A                 | 2 - 4/0           | -                           |


|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  |                       |                       |                   |                             |
|  | 600 V                 | 230 A                 | 2 - 4/0           | -                           |
| Multi-conductor connection   | 600 V                 | 230 A                 | 4 - 2             | -                           |
| C  |                       |                       |                   |                             |
|  | 600 V                 | 230 A                 | 2 - 4/0           | -                           |
| Multi-conductor connection   | 600 V                 | 230 A                 | 4 - 2             | -                           |


| <b>DNV</b><br>Approval ID: TAE00001CT |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  <b>ATEX</b><br>Approval ID: KEMA98ATEX1786U |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>IECEX</b><br>Approval ID: IECEXKEM06.0029U |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>CCC</b><br>Approval ID: 2020322313000623 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>UKCA-EX</b> |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

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Approval ID: DEKRA 21UKEX0307U

## UL Comp Hazloc CA US

Approval ID: UL US CA L 192998

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 230 A                 | 2 - 4/0           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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