

UBAL 95 BU - High-current terminal block



1086476

<https://www.phoenixcontact.com/us/products/1086476>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 220 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 95 mm², cross section: 16 mm² - 95 mm², Rated cross section: 95 mm², cross section: 16 mm² - 95 mm², mounting type: NS 35/15, NS 35/7,5, color: blue

Your advantages

- Tailor-made screw connection for multi-stranded aluminum conductors and copper wires
- Maintenance-free terminal points that are greased beforehand simplify the connection of aluminum conductors
- Extremely robust housing made from fiberglass-reinforced polyamide with V0 approval
- The special design of the UBAL enables the simultaneous connection of aluminum and copper conductors in various connections

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1086476 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | BE13 |
| Product key | BE1311 |
| GTIN | 4055626877976 |
| Weight per piece (including packing) | 97.06 g |
| Weight per piece (excluding packing) | 97.07 g |
| Customs tariff number | 85369010 |
| Country of origin | EE |

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Technical data

Notes

| | |
|---------|------------------------------------------------------------|
| General | Terminal block for aluminum and copper conductors (AL-CU) |
| General | |
| Note | We recommend using ferrules when using flexible conductor. |

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | Feed-through terminal block |
| Product family | UBAL |
| 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 | 8 kV |
| Maximum power dissipation for nominal condition | 7.54 W |

Connection data

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal cross section | 95 mm ² |
| Aluminum conductor | |
| Connection method | Screw connection |
| Screw thread | M14 |
| Note | Screws with hexagonal socket The following values apply to aluminum conductors |
| | The values for aluminum conductors relate to rigid and multi-stranded conductors in accordance with EN 60228. Application notes on connecting aluminum conductors can be found in the download area. |
| Tightening torque | 20 Nm |
| Stripping length | 27 mm |
| Connection in acc. with standard | IEC 61238-1 |
| Conductor cross-section rigid | 16 mm ² ... 95 mm ² |
| Cross section AWG | 4 ... 4/0 (converted acc. to IEC) |
| Nominal current | 220 A |
| Maximum load current | 220 A (with 95 mm ² conductor cross-section – test current in accordance with IEC 61238-1) |
| Nominal voltage | 1000 V |
| Nominal cross section | 95 mm ² |

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Copper conductor

| | |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Note | The following values apply to copper wires Flexible conductors, class 5, in accordance with EN 60228. |
| Tightening torque | 20 Nm |
| Stripping length | 27 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 16 mm ² ... 95 mm ² |
| Cross section AWG | 4 ... 4/0 (converted acc. to IEC) |
| Conductor cross-section flexible | 50 mm ² ... 70 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 16 mm ² ... 70 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 16 mm ² ... 70 mm ² |
| 2 conductors with same cross section, flexible | 16 mm ² ... 35 mm ² |
| Nominal current | 232 A |
| Maximum load current | 232 A (with 95 mm ² conductor cross-section) |
| Nominal voltage | 1000 V |
| Nominal cross section | 95 mm ² |

Dimensions

| | |
|--------------------|---------|
| Width | 25.1 mm |
| Height | 93.6 mm |
| Depth | 58 mm |
| Depth on NS 35/7,5 | 58 mm |
| Depth on NS 35/15 | 65.5 mm |
| Hole diameter | 2.75 mm |

Material specifications

| | |
|------------------------------------------------------------------|-----------------|
| Color | blue (RAL 5015) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | II |
| Insulating material | PA |
| Relative insulation material temperature index (Elec., UL 746 B) | 400 °C |

Electrical tests

Surge voltage test

| | |
|-----------------------|-------------|
| Test voltage setpoint | 8 kV |
| Result | Test passed |

Temperature-rise test

| | |
|-------------------------------------------------|--------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 95 mm ² | 11.4 kA |
| Result | Test passed |

Power-frequency withstand voltage

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

Mechanical properties

| | |
|-----------------|----|
| Mechanical data | |
| Open side panel | No |

Mechanical tests

| | |
|---------------------|-------------|
| Mechanical strength | |
| Result | Test passed |

| | |
|---------------------------|-------------|
| Attachment on the carrier | |
| DIN rail/fixing support | NS 35 |
| Test force setpoint | 15 N |
| Result | Test passed |

| | |
|------------------------------------------|-----------------------------|
| Test for conductor damage and slackening | |
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 16 mm ² / 2.9 kg |
| | 95 mm ² /14 kg |
| Result | Test passed |

Environmental and real-life conditions

| | |
|-------------------|-------------|
| Needle-flame test | |
| Time of exposure | 10 s |
| Result | Test passed |

| | |
|-----------------------------|--------------------------------------------------|
| Oscillation/broadband noise | |
| Specification | DIN EN 50155 (VDE 0115-200):2018-05 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | f ₁ = 5 Hz to f ₂ = 250 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 | |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

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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 61238-1 |
| | IEC 60947-7-1 |

Mounting

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

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Drawings

Circuit diagram



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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1086476>



EAC

Approval ID: KZ7500651131219505

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000897 |
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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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