

# UBAL 95 - High-current terminal block



1086475

<https://www.phoenixcontact.com/us/products/1086475>

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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 mm<sup>2</sup>, cross section: 16 mm<sup>2</sup> - 95 mm<sup>2</sup>, Rated cross section: 95 mm<sup>2</sup>, cross section: 16 mm<sup>2</sup> - 95 mm<sup>2</sup>, mounting type: NS 35/15, NS 35/7,5, color: gray

## Your advantages

- Maintenance-free terminal points that are greased beforehand simplify the connection of aluminum conductors
- Tailor-made screw connection for multi-stranded aluminum conductors and copper wires
- 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	1086475
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
Catalog page	Page 584 (C-1-2019)
GTIN	4055626875682
Weight per piece (including packing)	97.27 g
Weight per piece (excluding packing)	22.22 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
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 <sup>2</sup>
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### Aluminum conductor

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 <sup>2</sup> ... 95 mm <sup>2</sup>
Cross section AWG	4 ... 4/0 (converted acc. to IEC)
Nominal current	220 A
Maximum load current	220 A (with 95 mm <sup>2</sup> conductor cross section – test current in accordance with IEC 61238-1)
Nominal voltage	1000 V
Nominal cross section	95 mm <sup>2</sup>

### Copper conductor

Note	The following values apply to copper wires
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	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 <sup>2</sup> ... 95 mm <sup>2</sup>
Cross section AWG	4 ... 4/0 (converted acc. to IEC)
Conductor cross section flexible	50 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	16 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	16 mm <sup>2</sup> ... 70 mm <sup>2</sup>
2 conductors with same cross section, flexible	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Nominal current	232 A
Maximum load current	232 A (with 95 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V
Nominal cross section	95 mm <sup>2</sup>

## 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	gray
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 <sup>2</sup>	11.4 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

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## Mechanical properties

### Mechanical data

Open side panel	No
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### 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 <sup>2</sup> / 2.9 kg
	95 mm <sup>2</sup> /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	Service 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

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.)
Result	Test passed

## Standards and regulations

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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/1086475>



**EAC**

Approval ID: RU C-DE.BL08.B.00534

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## Classifications

### ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

### ETIM

ETIM 8.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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## Accessories

### CEC UBAL 95 - Cover plate

1090035

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Cover plate, color: yellow

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### UCT-TM 8 - Marker for terminal blocks

0828740

<https://www.phoenixcontact.com/us/products/0828740>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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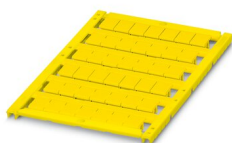
<https://www.phoenixcontact.com/us/products/1086475>



## UCT-TM 8 YE - Marker for terminal blocks

0828741

<https://www.phoenixcontact.com/us/products/0828741>



Marker for terminal blocks, Sheet, yellow, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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## UCT-TM 8 GN - Marker for terminal blocks

0829168

<https://www.phoenixcontact.com/us/products/0829168>



Marker for terminal blocks, Sheet, green, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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## UCT-TM 8 RD - Marker for terminal blocks

0829164

<https://www.phoenixcontact.com/us/products/0829164>



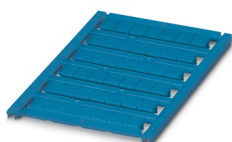
Marker for terminal blocks, Sheet, red, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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## UCT-TM 8 BU - Marker for terminal blocks

0829167

<https://www.phoenixcontact.com/us/products/0829167>



Marker for terminal blocks, Sheet, blue, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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## UCT-TM 8 VT - Marker for terminal blocks

0829166

<https://www.phoenixcontact.com/us/products/0829166>



Marker for terminal blocks, Sheet, violet, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap in, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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## UCT-TM 8 OG - Marker for terminal blocks

0829165

<https://www.phoenixcontact.com/us/products/0829165>



Marker for terminal blocks, Sheet, orange, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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## PXC TERMINAL GREASE - Antioxidant

1108540

<https://www.phoenixcontact.com/us/products/1108540>

Antioxidant



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