

UBAL 150 - High-current terminal block



1086498

<https://www.phoenixcontact.com/us/products/1086498>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 290 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 150 mm², cross section: 35 mm² - 150 mm², Rated cross section: 150 mm², cross section: 35 mm² - 150 mm², mounting type: NS 35/15, NS 35/7,5, color: gray

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	1086498
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
Catalog page	Page 585 (C-1-2019)
GTIN	4055626877990
Weight per piece (including packing)	153.45 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	9.55 W

Connection data

Nominal cross section	150 mm ²
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Aluminum conductor

Screw thread	M18
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 ... 30 Nm
Stripping length	30 mm
Connection in acc. with standard	IEC 61238-1
Conductor cross section rigid	35 mm ² ... 150 mm ²
Cross section AWG	2 ... 300 (converted acc. to IEC)
Nominal current	290 A
Maximum load current	290 A (with 150 mm ² conductor cross section – test current in accordance with IEC 61238-1)
Nominal voltage	1000 V
Nominal cross section	150 mm ²

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 ... 30 Nm
Stripping length	30 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	35 mm ² ... 150 mm ²
Cross section AWG	2 ... 300 (converted acc. to IEC)
Conductor cross section flexible	95 mm ² ... 120 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	35 mm ² ... 120 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	35 mm ² ... 120 mm ²
2 conductors with same cross section, flexible	35 mm ² ... 50 mm ²
Nominal current	309 A
Maximum load current	309 A (with 150 mm ² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	150 mm ²

Dimensions

Width	30.5 mm
Height	105.5 mm
Depth	67 mm
Depth on NS 35/7,5	67 mm
Depth on NS 35/15	74.5 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 150 mm ²	18 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	35 mm ² / 6.8 kg
	150 mm ² / 15 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 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.)
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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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 150 - Cover plate

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Cover plate, color: yellow

UCT-TM 10 - Marker for terminal blocks

0829142

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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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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UCT-TM 10 GN - Marker for terminal blocks

0829173

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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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

UCT-TM 10 VT - Marker for terminal blocks

0829171

<https://www.phoenixcontact.com/us/products/0829171>



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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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UCT-TM 10 RD - Marker for terminal blocks

0829169

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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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

UCT-TM 10 YE - Marker for terminal blocks

0829143

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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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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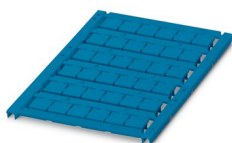
<https://www.phoenixcontact.com/us/products/1086498>



UCT-TM 10 BU - Marker for terminal blocks

0829172

<https://www.phoenixcontact.com/us/products/0829172>



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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

UCT-TM 10 OG - Marker for terminal blocks

0829170

<https://www.phoenixcontact.com/us/products/0829170>



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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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PXC TERMINAL GREASE - Antioxidant

1108540

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Antioxidant



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