

# 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 mm<sup>2</sup>, cross section: 35 mm<sup>2</sup> - 150 mm<sup>2</sup>, Rated cross section: 150 mm<sup>2</sup>, cross section: 35 mm<sup>2</sup> - 150 mm<sup>2</sup>, 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	10 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
GTIN	4055626877990
Weight per piece (including packing)	153.45 g
Weight per piece (excluding packing)	150 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	9.55 W

### Connection data

Nominal cross section	150 mm <sup>2</sup>
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### Aluminum conductor

Connection method	Screw connection
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 <sup>2</sup> ... 150 mm <sup>2</sup>
Cross section AWG	2 ... 300 (converted acc. to IEC)
Nominal cross section	150 mm <sup>2</sup>
Nominal current	290 A
Maximum load current	290 A (with 150 mm <sup>2</sup> conductor cross-section – test current in accordance with IEC 61238-1)
Nominal voltage	1000 V

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

## 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 (RAL 7042)
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 <sup>2</sup>	18 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
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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 slacking

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	35 mm <sup>2</sup> / 6.8 kg
	150 mm <sup>2</sup> / 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	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

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

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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/1086498>



**EAC**

Approval ID: KZ7500651131219505



**UL Recognized**

Approval ID: FILE E 60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
E				
	1000 V	285 A	2 - 300	-
Al conductors	1000 V	230 A	2 - 300	-

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## Classifications

### ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

### ETIM

ETIM 10.0	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
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### 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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### EF3.1 Climate Change

CO2e kg	1.447 kg CO2e
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