1086478

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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>, section: 95 mm<sup>2</sup>, cross section: 16 mm<sup>2</sup> - 95 mm<sup>2</sup>, 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: black

### 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	1086478
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
Catalog page	Page 584 (C-1-2019)
GTIN	4055626876597
Weight per piece (including packing)	97.2 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 donductor. Product properties Feed-through terminal block Product type Number of positions 1 Number of connections 2 Number of rows 1 Potentials 1 Insulation characteristics Ш Overvoltage category Degree of pollution 3 Electrical properties Rated surge voltage 8 kV 7.54 W Maximum power dissipation for nominal condition Connection data Nominal cross section 95 mm<sup>2</sup> Aluminum conductor M14 Screw thread Note Screws with hexagonal socket The following values apply to aluminum conductors The values for aluminum conductors relate to rigid and multistranded 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) 220 A Nominal current Maximum load current 220 A (with 95 mm<sup>2</sup> conductor cross section - test current in accordance with IEC 61238-1) 1000 V Nominal voltage 95 mm<sup>2</sup> Nominal cross section

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 mm² 95 mm²
Cross section AWG	4 4/0 (converted acc. to IEC)
Conductor cross section flexible	50 mm² 70 mm²
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 mm² 70 mm²
2 conductors with same cross section, flexible	16 mm² 35 mm²
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 mm²

#### 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	black
Flammability rating according to UL 94	VO
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
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 mm² / 2.9 kg
	95 mm²/14 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> )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.)

Ambient conditions

Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heating;
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	for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, no longer than 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 %
tandards and regulations	
Connection in acc. with standard	IEC 61238-1
	IEC 60947-7-1
lounting	

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
ΕT	IM	
	ETIM 9.0	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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Accessories

CEC UBAL 95 - Cover plate

1090035 https://www.phoenixcontact.com/us/products/1090035

Cover plate, color: yellow



### PXC TERMINAL GREASE - Antioxidant

1108540

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Antioxidant

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