

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 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: 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	10 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

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

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

Data management status

Article revision	01	
Insulation characteristics		
Overvoltage category	III	

3

Electrical properties

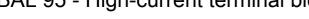
Degree of pollution

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	7.54 W

Connection data

omiodion data		
Nominal cross section	95 mm²	
Aluminum conductor		
Screw thread	M14	
Note	Screws with hexagonal socket	

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 mm² 95 mm²
Cross section AWG	4 4/0 (converted acc. to IEC)
Nominal current	220 A
Maximum load current	220 A (with 95 mm² conductor cross section – test current in accordance with IEC 61238-1)
Nominal voltage	1000 V



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Nominal cross section	95 mm²
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 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 mm² 70 mm²
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 mm² 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	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

3. 3	
Test voltage setpoint	8 kV
Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 95 mm²	11.4 kA
Result	Test passed



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ŀ	Power-frequency withstand voltage	

l est voltage setpoint	2.2 KV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
Open side panel	140

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	

Environmental and real-life conditions

Needle-flame test

Result

Time of exposure	10 s
Result	Test passed

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/s²)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



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X-, Y- and Z-axis (pos. and neg.)
Test passed
-60 °C 110 °C (Operating temperature range incl. self-heating for max. short-term operating temperature, see RTI Elec.)
-25 °C 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
-5 °C 70 °C
-5 °C 70 °C
20 % 90 %
30 % 70 %
JEO 04000 4
IEC 61238-1
IEC 60947-7-1
NS 35/15



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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 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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com