

1086507

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High-current terminal block, nom. voltage: 1000 V, nominal current: 380 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 240 mm², cross section: 35 mm² - 240 mm², Rated cross section: 240 mm², cross section: 35 mm² - 240 mm², mounting type: Screw mounting, color: green

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	1086507
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	****
Product key	BE1311
Catalog page	Page 585 (C-1-2019)
GTIN	4055626879741
Weight per piece (including packing)	279.08 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85369010
Country of origin	EE



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Technical data

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
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	13.78 W

Connection data

Nominal cross section	240 mm²
Aluminum conductor	
Aluminum conductor	

Screw thread	M20
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	12 45 Nm
Stripping length	43 mm
Connection in acc. with standard	IEC 61238-1
Conductor cross section rigid	35 mm² 240 mm²
Cross section AWG	3/0 500 (converted acc. to IEC)
Nominal current	380 A
Maximum load current	380 A (with 240 mm² conductor cross section – test current in accordance with IEC 61238-1)
Nominal voltage	1000 V
Nominal cross section	240 mm²

Coppe	er cor	nduc	tor

Note The following values ap	oply to copper wires
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	Flexible conductors, class 5, in accordance with EN 60228.
Tightening torque	12 45 Nm
Stripping length	43 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	35 mm² 240 mm²
Cross section AWG	3/0 500 (converted acc. to IEC)
Conductor cross section flexible	150 mm² 185 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	35 mm² 185 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	35 mm² 185 mm²
2 conductors with same cross section, flexible	35 mm² 70 mm²
Nominal current	415 A
Maximum load current	415 A (with 240 mm² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	240 mm²

Dimensions

Width	37.5 mm
Height	130 mm
Depth	70 mm
Hole diameter	3.22 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Insulating material group	II
Insulating material	PA
Relative insulation material temperature index (Elec., UL 746 B)	550 °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 250 mm ²	28.8 kA
Result	Test passed

Power-frequency withstand voltage

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Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties



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Mechanical data	
Open side panel	No
echanical tests	
echanical tests	
Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	20 N
Result	Test passed
nvironmental and real-life conditions	
iviloninental 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	$f_1 = 5$ Hz to $f_2 = 250$ 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
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed
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 %



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Standards and regulations

Connection in acc. with standard	IEC 61238-1
	IEC 60947-7-1
Mounting	

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Mounting type	Screw mounting
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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/1086507



EAC

Approval ID: EACKZ 08593



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
ETIM		
	ETIM 9.0	EC000897
UN	ISPSC	

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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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