

3247048

https://www.phoenixcontact.com/sg/products/3247048

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High-current terminal block, nom. voltage: 1000 V, nominal current: 415 A, number of connections: 2, connection method: Screw connection, Rated cross section: 240 mm<sup>2</sup>, cross section: 70 mm<sup>2</sup> - 240 mm<sup>2</sup>, mounting type: direct screw connection, color: gray

#### Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base<br/>br/>
- · Low contact resistance of the contact surface due to ribbing
- · Screw locking by means of spring-loaded elements in the clamping part

#### Commercial data

Item number	3247048
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BE1311
Catalog page	Page 199 (C-1-2019)
GTIN	4046356607278
Weight per piece (including packing)	528.84 g
Weight per piece (excluding packing)	494.17 g
Customs tariff number	85369010
Country of origin	IN



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### Technical data

#### Product properties

Product type	High current terminal block
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

Number of connections per level	2
Nominal cross section	240 mm²

evel 1 above 1 below 1	
Screw thread	M10
Note	Screws with hexagonal socket
Tightening torque	25 30 Nm
Stripping length	40 mm
Internal cylindrical gage	B15
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	70 mm² 240 mm²
Cross section AWG	3/0 250 kcmil (converted acc. to IEC)
Conductor cross section flexible	70 mm² 240 mm²
Conductor cross section, flexible [AWG]	3/0 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	70 mm² 185 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	70 mm² 185 mm²
Cross-section with insertion bridge, rigid	240 mm²
Cross-section with insertion bridge, flexible	185 mm²
2 conductors with same cross section, solid	35 mm² 95 mm²
2 conductors with same cross section, flexible	50 mm² 95 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	35 mm² 50 mm²
Nominal current	415 A
Maximum load current	415 A (with 240 mm² conductor cross section)
Nominal voltage	1000 V
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area
Nominal cross section	240 mm²



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#### Ex data

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Rated da	ita (A i	EX/IE	(LEX)

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1201947 VDE-ISS 8
List of bridges	Insertion bridge / EB 2-36/UKH / 0201401
	Insertion bridge / EB 3-36/UKH / 0201414
Bridge data	270 A (240 mm²)
Ex temperature increase	40 K (389 A/240 mm²)
Rated voltage	1100 V
at bridging with insertion bridge	690 V
Rated insulation voltage	1000 V
output	(Permanent)

#### Ex level General

Rated current	350 A
Maximum load current	350 A
Contact resistance	0.03 mΩ

#### Ex connection data General

Stripping length	40 mm
Torque range	25 Nm 30 Nm
Nominal cross section	240 mm²
Rated cross section AWG	500 kcmil
Connection capacity rigid	70 mm² 240 mm²
Connection capacity AWG	2/0 500 kcmil
Connection capacity flexible	70 mm² 240 mm²
Connection capacity AWG	2/0 500 kcmil
2 conductors with same cross section, solid	35 mm² 95 mm²
2 conductors with the same cross-section AWG rigid	2 3/0
2 conductors with same cross section, stranded	50 mm² 95 mm²
2 conductors with the same cross-section AWG flexible	1/0 3/0

#### **Dimensions**

Dimensional drawing	
Width	36 mm
Height	136.1 mm
Depth	124 mm
Hole diameter	6.5 mm



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#### Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	1
Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

#### Electrical tests

#### Surge voltage test

Result	Test passed
Short-time withstand current 240 mm²	28.8 kA
Result	Test passed

#### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

#### Mechanical properties

#### Mechanical data

Open side panel	No

#### Mechanical tests

Result

#### Mechanical strength

Result	Test passed			
Attachment on the carrier				
DIN rail/fixing support	NS 32/NS 35			
Result	Test passed			
Test for conductor damage and slackening				
Rotation speed	10 (+/- 2) rpm			
Revolutions	135			
Conductor cross section/weight	70 mm²/10.4 kg			
	240 mm²/20.0 kg			

Test passed



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#### Environmental and real-life conditions

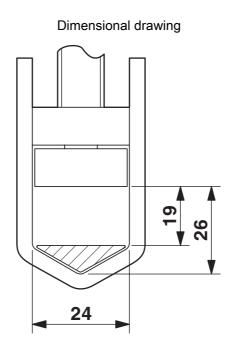
Time of exposure	30 s
Result	Test passed
scillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Long life test category 2, bogie-mounted
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
hocks	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed
mbient conditions	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heatin 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 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
unting	
Mounting type	direct screw connection
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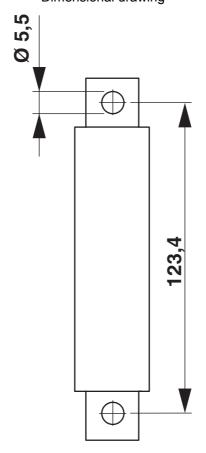
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### Drawings



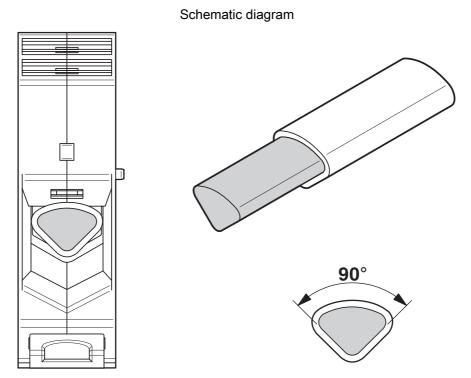
### Dimensional drawing





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Connecting aluminum cables. Further notes can be found in the download area

Circuit diagram





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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/3247048

cULus Recognized Approval ID: E60425				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	600 V	380 A	2/0 - 500	-
Multi-conductor connection	600 V	380 A	2 - 3/0	-
Use group C				
	600 V	380 A	2/0 - 500	-
Multi-conductor connection	600 V	380 A	2 - 3/0	-

ATEX Approval ID: KEMA99ATEX8332U				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Type examination certificate	1100 V	350 A	-	70 - 240

IECEX Approval ID: IECEX KEM 06.0030U					
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		1100 V	350 A	-	70 - 240



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### Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
ET	ТІМ	
	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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