

3247062

https://www.phoenixcontact.com/us/products/3247062

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High-current terminal block, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 50 mm², cross section: 16 mm² - 70 mm², mounting type: direct screw connection, color: blue

Your advantages

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

Commercial data

Item number	3247062
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
GTIN	4046356733304
Weight per piece (including packing)	131.05 g
Weight per piece (excluding packing)	131.05 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 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	4.73 W

Connection data

Number of connections per level	2
Nominal cross section	50 mm²
Screw thread	M6
Tightening torque	6 8 Nm
Stripping length	24 mm
Internal cylindrical gage	B10
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	16 mm² 70 mm²
Cross section AWG	4 2/0 (converted acc. to IEC)
Conductor cross section flexible	25 mm² 70 mm²
Conductor cross section, flexible [AWG]	2 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	25 mm² 50 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	25 mm² 50 mm²
2 conductors with same cross section, solid	10 mm² 16 mm²
2 conductors with same cross section, flexible	10 mm² 16 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	10 mm² 16 mm²
Nominal current	150 A
Maximum load current	150 A (with 50 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	50 mm²

Ex data

Rated data (ATEX/IECEx)



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Identification	€ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1205082 SZS 1,2X8,0 VDE
List of bridges	Fixed bridge / FBI 2-20-EX / 0201113
	Fixed bridge / FBI 3-20-EX / 0201812
Bridge data	130.5 A / 50 mm²
Ex temperature increase	40 K (146.5 A / 50 mm²)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)
Full bound Commonst	
Ex level General	400 A
Rated current	133 A
Maximum load current	133 A
Contact resistance	0.1 mΩ
Ex connection data General	
Torque range	6 Nm 8 Nm
Nominal cross section	50 mm²
Rated cross section AWG	1/0
Connection capacity rigid	16 mm² 50 mm²
Connection capacity AWG	6 1/0
Connection capacity flexible	25 mm² 50 mm²
Connection capacity AWG	4 1/0
2 conductors with same cross section, solid	10 mm² 16 mm²
2 conductors with the same cross-section AWG rigid	8 6
2 conductors with same cross section, stranded	10 mm² 16 mm²
2 conductors with the same cross-section AWG flexible	8 6
mensions	
Dimensional drawing	

D

Dimensional drawing	
Width	20 mm
Height	75.5 mm
Depth	76 mm
Hole diameter	5.5 mm

Material specifications

Color	blue
Flammability rating according to UL 94	V0
Insulating material group	I



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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	

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 50 mm²	6 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

Mechanical strength

Conductor cross section/weight

Result	Test passed			
Attachment on the carrier				
DIN rail/fixing support	NS 32/NS 35			
Test force setpoint	10 N			
Result	Test passed			
Test for conductor damage and slackening				
Rotation speed	10 (+/- 2) rpm			
Revolutions	135			

16 mm² / 2.9 kg 50 mm² / 9.5 kg 70 mm²/10.4 kg



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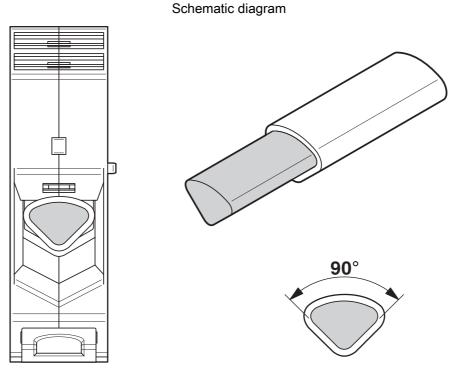
Result	Test passed
ironmental and real-life conditions	
eedle-flame test	
Time of exposure	30 s
Result	Test passed
scillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Service life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
nocks	
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
nbient 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, 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 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
unting	
Mounting type	direct screw connection



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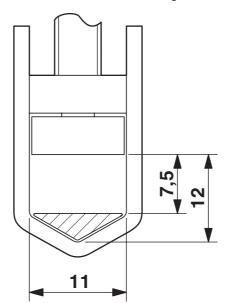


Drawings



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

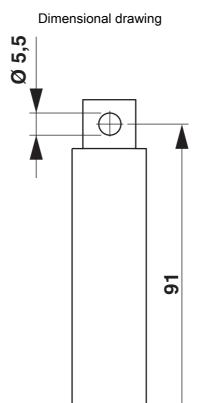
Dimensional drawing



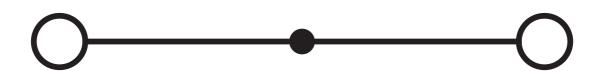


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Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3247062



EAC

Approval ID: RU C-DE.BL08.B.00534



ATEX

Approval ID: KEMA98ATEX1786U



IECEx

Approval ID: IECEx KEM 06.0029U



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Classifications

ECLASS

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

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



Note: Applying some accessories below might limit this product.

FBI 2-20 - Fixed bridge

0201346

https://www.phoenixcontact.com/us/products/0201346



Fixed bridge, pitch: 20 mm, number of positions: 2, color: silver

Max. current carrying capacity: 150 A

FBI 3-20 - Fixed bridge

0201317

https://www.phoenixcontact.com/us/products/0201317



Fixed bridge, pitch: 20 mm, number of positions: 3, color: silver

150 Max. current carrying capacity: 150 A



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FBI 2-20-EX - Fixed bridge

0201113

https://www.phoenixcontact.com/us/products/0201113



Fixed bridge, number of positions: 2, color: silver

130 A Max. current carrying capacity: 130 A

FBI 3-20-EX - Fixed bridge

0201812

https://www.phoenixcontact.com/us/products/0201812



Fixed bridge, number of positions: 3, color: silver

130 A Max. current carrying capacity: 130 A



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AGK 10-UKH 50 - Pick-off terminal block

3001763

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Pick-off terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 1, connection method: Screw connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 10 mm², color: gray

ZB 10:UNBEDRUCKT - Zack marker strip

1053001

https://www.phoenixcontact.com/us/products/1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10



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ZB 10 CUS - Zack marker strip

0824941

https://www.phoenixcontact.com/us/products/0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

ZB10,LGS:FORTL.ZAHLEN - Zack marker strip

1053014

https://www.phoenixcontact.com/us/products/1053014



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.15×10.5 mm, Number of individual labels: 10



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ZB10,QR:FORTL.ZAHLEN - Zack marker strip

1053027

https://www.phoenixcontact.com/us/products/1053027



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

ZB10,LGS:L1-N,PE - Marker for terminal blocks

1053412

https://www.phoenixcontact.com/us/products/1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: $10,15 \times 10,5 \text{ mm}$, Number of individual labels: 10



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ZB10,LGS:U-N - Marker for terminal blocks

1053438

https://www.phoenixcontact.com/us/products/1053438



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

UC-TM 10 - Marker for terminal blocks

0818069

https://www.phoenixcontact.com/us/products/0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 9.6×10.5 mm, Number of individual labels: 48



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UC-TM 10 CUS - Marker for terminal blocks

0824605

https://www.phoenixcontact.com/us/products/0824605



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

UCT-TM 10 - Marker for terminal blocks

0829142

https://www.phoenixcontact.com/us/products/0829142



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36



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UCT-TM 10 CUS - Marker for terminal blocks

0829623

https://www.phoenixcontact.com/us/products/0829623



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

TMT 10 R - Marker for terminal blocks

0816210

https://www.phoenixcontact.com/us/products/0816210



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, perforated, mounting type: snapped, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 6.35 x 10.15 mm, Number of individual labels: 10000



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TMT 10 R CUS - Marker for terminal blocks

0824500

https://www.phoenixcontact.com/us/products/0824500



Marker for terminal blocks, can be ordered: by line, white, labeled according to customer specifications, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: $6.35 \times 10.15 \text{ mm}$

SZS 1,2X8,0 VDE - Screwdriver

1205082

https://www.phoenixcontact.com/us/products/1205082



Screwdriver, slot-headed, VDE insulated, size: $1.2 \times 8.0 \times 175$ mm, 2-component grip, with non-slip grip



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X-PEN 0,35 - Marker pen

0811228

https://www.phoenixcontact.com/us/products/0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness $0.35\ \mathrm{mm}$

WS-2K - Warning label

1004513

https://www.phoenixcontact.com/us/products/1004513

Adhesive warning plate, self-adhesive, black print: lightning flash with mixed verson - "Vorsicht Spannung - Attention Danger" size of label: 32 x 26 mm





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WS-4K - Warning label

1004584

https://www.phoenixcontact.com/us/products/1004584

Adhesive warning plate, self-adhesive, black print: lightning flash with mixed verson - "Vorsicht Spannung - Attention Danger" size of label: $13 \times 23.5 \text{ mm}$



UKH 50 EP - Insertion profile

3009228

https://www.phoenixcontact.com/us/products/3009228

Insertion profile, color: silver



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