

PTPOWER 95-FE-F - High-current terminal block



3260142

<https://www.phoenixcontact.com/us/products/3260142>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 232 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, cross section: 25 mm² - 95 mm², mounting type: direct screw connection, color: black/yellow

Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- In addition to using the existing test pick-off, pick-off terminal blocks can be connected, each of which can also accommodate two test cables
- The compact design enables wiring in a confined space
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- Tested for railway applications

Commercial data

Item number	3260142
Packing unit	3 pc
Minimum order quantity	10 pc
Sales key	BE22
Product key	BE2211
Catalog page	Page 139 (C-1-2019)
GTIN	4046356779067
Weight per piece (including packing)	254.77 g
Weight per piece (excluding packing)	246.26 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	High current terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	1
Pitch	25 mm
Number of connections	2
Number of rows	1
Potentials	1

Data management status

Article revision	13
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Insulation characteristics

Ovvoltage category	III
Degree of pollution	3

Electrical properties

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

Connection data

Number of connections per level	2
Nominal cross section	95 mm ²
Stripping length	40 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	25 mm ² ... 95 mm ²
Cross section AWG	2 ... 3/0 (converted acc. to IEC)
Conductor cross section flexible	25 mm ² ... 95 mm ²
Conductor cross section, flexible [AWG]	2 ... 3/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	25 mm ² ... 95 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	25 mm ² ... 95 mm ²
Cross-section with insertion bridge, rigid	70 mm ²
Cross-section with insertion bridge, flexible	70 mm ²
Nominal current	232 A
Maximum load current	232 A (with 95 mm ² conductor cross section)
Nominal voltage	1000 V

Connection cross sections directly pluggable

Conductor cross section rigid	25 mm ² ... 95 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	25 mm ² ... 95 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	25 mm ² ... 95 mm ²

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Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1206612 SZF 3-1,0X5,5
List of bridges	Insertion bridge / EB 2-25/PT / 3260157
Bridge data	144 A / 50 mm ² 174 A / 70 mm ²
List of bridges	Insertion bridge / EB 3-25/PT / 3260160
Bridge data	144 A / 50 mm ² 174 A / 70 mm ²
Ex temperature increase	40 K (237 A / 95 mm ²)
Rated voltage	1100 V
at bridging with insertion bridge	1100 V
for bridging with bridge	1100 V
Rated insulation voltage	1000 V
output	(Permanent)

Ex level General

Rated current	215 A
Maximum load current	215 A
Contact resistance	0.1 mΩ

Ex connection data General

Ferrule length	40 mm
Stripping length	40 mm
Nominal cross section	95 mm ²
Rated cross section AWG	4/0
Connection capacity rigid	25 mm ² ... 95 mm ²
Connection capacity AWG	4 ... 4/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	95 mm ²
Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG	4 ... 4/0

Dimensions

Dimensional drawing	
Width	25 mm

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Height	139.1 mm
Depth	99.8 mm
Drill hole spacing	126.4 mm
Hole diameter	6.5 mm
Pitch	25 mm

Material specifications

Color	multicolored black (RAL 9005) yellow (RAL 1018)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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	
Test voltage setpoint	9.8 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 ²	11.4 kA
Result	Test passed

Power-frequency withstand voltage	
Test voltage setpoint	6 kV
Result	Test passed

Mechanical properties

Mechanical data	
Open side panel	No

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Technical data

Drill hole spacing	126.4 mm
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 35/15
Test force setpoint	15 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	25 mm ² / 4.5 kg
	95 mm ² /14 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 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/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
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.)

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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, 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 %

Standards and regulations

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

Mounting type	direct screw connection
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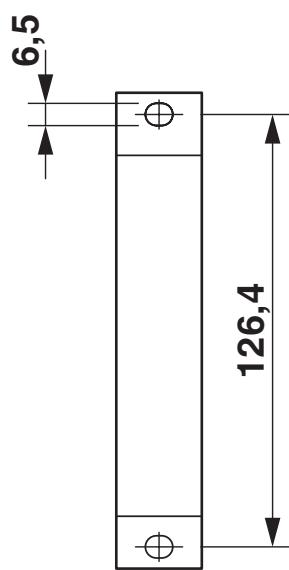


Drawings

Circuit diagram



Dimensional drawing



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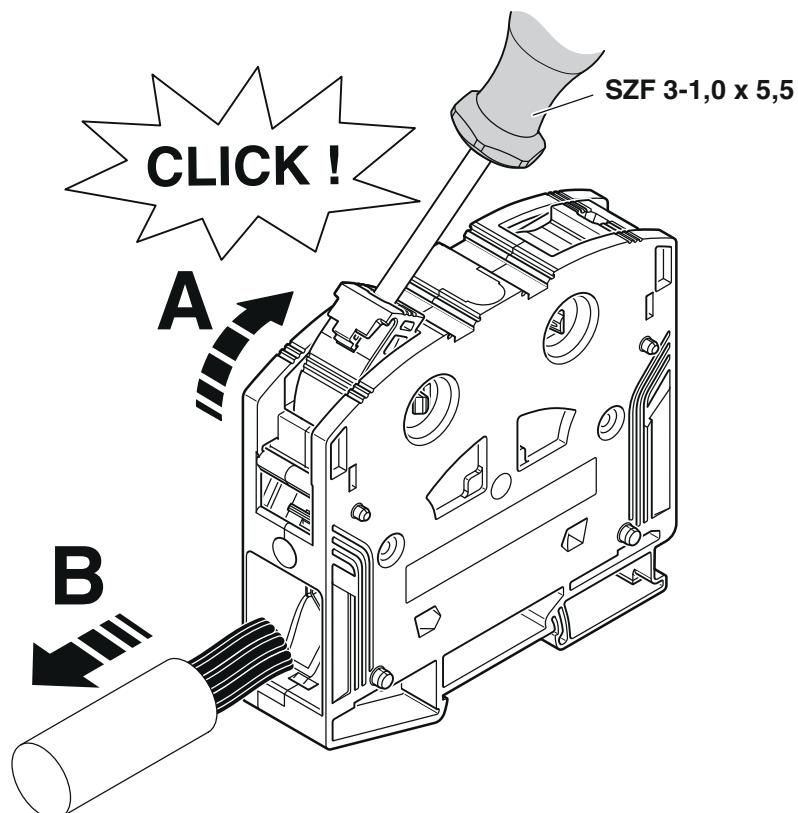


Schematic diagram

PTPOWER



AGK 10-PTPOWER	0,5 mm ² ... 16 mm ²	18 mm
PTPOWER 35	2,5 mm ² ... 35 mm ²	25 mm
PTPOWER 50	10 mm ² ... 50 mm ²	32 mm
PTPOWER 95	25 mm ² ... 95 mm ²	40 mm
PTPOWER 185	95 mm ² ... 185 mm ²	40 mm



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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3260142>



CSA

Approval ID: 13631



EAC

Approval ID: RU C-DE.BL08.B.00644

DNV

Approval ID: TAE00000Z9



cUL Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group C	1000 V	230 A	4 - 4/0	-



UL Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group E	1000 V	230 A	4 - 4/0	-



CSA

Approval ID: 13631



CCC

Approval ID: 2020322313000630



UKCA-EX

Approval ID: CML 22UKEX1227U



IECEx

Approval ID: IECExSEV14.0013U



ATEX

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Approval ID: SEV14ATEX0156U

Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
1100 V	215 A	-	25 - 95



IECEx

Approval ID: IECExSEV14.0013U

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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