

PTPOWER 95 P BU - High-current terminal block



3260166

<https://www.phoenixcontact.com/us/products/3260166>

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High-current terminal block, with test socket, 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: NS 35/15, color: blue

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 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
- The compact design enables wiring in a confined space
- Tested for railway applications

Commercial data

Item number	3260166
Packing unit	3 pc
Minimum order quantity	3 pc
Sales key	BE22
Product key	BE2211
GTIN	4046356805049
Weight per piece (including packing)	257.333 g
Weight per piece (excluding packing)	197.5 g
Customs tariff number	85369010
Country of origin	TR

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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
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	7.54 W

Connection data

Number of connections per level	2
Nominal cross section	95 mm ²
Connection method	PowerTurn connection
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

Ex data

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Rated data (ATEX/IECEX)

Identification	⊕ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1206612 SZF 3-1,0X5,5 1201662 E/AL-NS 35
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)
at bridging with insertion bridge	1100 V
for bridging with bridge	1100 V
Rated insulation voltage	1000 V
output	(Permanent)

Ex level General

Rated voltage	1100 V
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

Width	25 mm
Height	105.5 mm
Depth on NS 35/15	108.7 mm

Material specifications

Color	blue (RAL 5015)
Flammability rating according to UL 94	V0

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Insulating material group	I
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

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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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

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Result	Test passed
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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):2008-03
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
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):2008-03
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 %

Standards and regulations

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

Mounting type	NS 35/15
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Drawings

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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Circuit diagram



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Approvals


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 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	600 V	230 A	4 - 4/0	-
C	1000 V	230 A	4 - 4/0	-

 EAC Approval ID: RU C-DE.BL08.B.00644				
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 DNV Approval ID: TAE0000029				
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 cUL Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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
E	1000 V	230 A	4 - 4/0	-

 CCC Approval ID: 2020322313000630				
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 UKCA-EX Approval ID: CML 22UKEX1227U				
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 IECEx Approval ID: IECExSEV14.0013U				
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 ATEX Approval ID: SEV14ATEX0156U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1100 V	215 A	-	25 - 95

 IECEX Approval ID: IECEXSEV14.0013U				
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 EAC Ex Approval ID: KZ 7500525010101950				
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Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 10.0	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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EF3.1 Climate Change

CO2e kg	3.263 kg CO2e
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