

PTPOWER 35-FE - High-current terminal block



3212081

<https://www.phoenixcontact.com/us/products/3212081>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, Rated cross section: 35 mm², cross section: 2.5 mm² - 35 mm², mounting type: NS 35/15, color: black/yellow

Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- 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 and front connection enable wiring in a confined space
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

Commercial data

Item number	3212081
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE22
Product key	BE2211
GTIN	4046356869843
Weight per piece (including packing)	91.6 g
Weight per piece (excluding packing)	83.54 g
Customs tariff number	85369010
Country of origin	TR

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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	4.06 W

Connection data

Number of connections per level	2
Nominal cross section	35 mm ²
Rated cross section AWG	2
Connection method	PowerTurn connection
Stripping length	25 mm
Conductor cross-section rigid	2.5 mm ² ... 35 mm ²
Cross section AWG	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible	2.5 mm ² ... 35 mm ²
Conductor cross-section, flexible [AWG]	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm ² ... 35 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm ² ... 35 mm ²
Nominal cross section	35 mm ²
Nominal current	125 A
Maximum load current	125 A (with 35 mm ² conductor cross-section)
Nominal voltage	1000 V

Connection cross sections directly pluggable

Conductor cross-section rigid	2.5 mm ² ... 35 mm ²
Conductor cross-section, rigid [AWG]	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm ² ... 35 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm ² ... 35 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	⊕ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C

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Ex-certified accessories	1206612 SZF 3-1,0X5,5
	1201662 E/AL-NS 35
List of bridges	Plug-in bridge / FBS 2-16 / 3005963
Bridge data	89 A (25 mm ²)
Ex temperature increase	40 K (120 A/35 mm ²)
for bridging with bridge	690 V
Rated insulation voltage	660 V
output	(Permanent)

Ex level General

Rated voltage	690 V
Rated current	109 A
Maximum load current	109 A
Contact resistance	0.16 mΩ

Ex connection data General

Ferrule length	25 mm
Stripping length	25 mm
Nominal cross section	35 mm ²
Rated cross section AWG	2
Connection capacity rigid	2.5 mm ² ... 35 mm ²
Connection capacity AWG	12 ... 2
Conductor cross-section flexible, with ferrule without plastic sleeve min.	6 mm ²
Conductor cross-section flexible, with ferrule without plastic sleeve max.	35 mm ²

Dimensions

Width	16 mm
Height	91.6 mm
Depth on NS 35/7,5	69.8 mm
Depth on NS 35/15	77.3 mm

Material specifications

Color	multicolored (RAL -)
	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
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

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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

Mechanical properties

Mechanical data

Open side panel	No
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Environmental and real-life conditions

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 %

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

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3212081>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	600 V	115 A	14 - 2	-
C	1000 V	115 A	14 - 2	-

 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	115 A	14 - 2	-

 UL Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
E	1000 V	115 A	14 - 2	-

 EAC Approval ID: KZ7500651131219505				
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 UKCA-EX Approval ID: CML 22UKEX1227U				
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 IECEx Approval ID: IECExSEV14.0013U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				

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Only rigid conductors	690 V	109 A	-	2.5 - 35
multi-stranded with ferrule	690 V	109 A	-	6 - 35

 ATEX Approval ID: SEV14ATEX0156U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only rigid conductors	690 V	109 A	-	2.5 - 35
multi-stranded with ferrule	690 V	109 A	-	6 - 35

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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	1.211 kg CO2e
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