

3214322

https://www.phoenixcontact.com/us/products/3214322

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 60 V, Thermal continuous current  $I_{th}$ : 30 A, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 6 mm<sup>2</sup>, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

#### Commercial data

Item number	3214322
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1136
Catalog page	Page 162 (C-1-2019)
GTIN	4046356895675
Weight per piece (including packing)	37.097 g
Weight per piece (excluding packing)	37.097 g
Customs tariff number	85369095
Country of origin	PL



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## Technical data

#### Notes

General	The current is determined by the fuse used, the voltage by the selected LED.
	If the fuse is faulty, the downstream circuit will not be disconnected.

### Product properties

Product type	Ground terminal block
Number of connections	5
Number of rows	3
Potentials	3

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

#### Electrical properties

Fuse type	Glass / ceramics /
Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W
Fuse	G / 5 x 20
LED voltage range	30 V AC 60 V AC
LED current range	0.4 mA 0.86 mA
Maximum power dissipation	max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload)
	max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload)
	max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit)
	max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit)

### Input data

LED voltage range	30 V AC 60 V AC

### Connection data

Number of connections per level	2
Nominal cross section	4 mm²

### Level 1

Level I	
Screw thread	M3
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	0.6 0.8 Nm
Stripping length	9 mm
Internal cylindrical gage	A4



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	B3
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Conductor cross section rigid	0.14 mm² 6 mm²
cross section AWG	26 10 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 6 mm²
Conductor cross section, flexible [AWG]	26 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 4 mm²
lexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 4 mm²
conductors with same cross section, solid	0.14 mm² 1.5 mm²
conductors with same cross section, flexible	0.14 mm² 1.5 mm²
conductors with same cross section, flexible, with ferrule thout plastic sleeve	0.14 mm² 1.5 mm²
conductors with the same cross section, flexible, with TWIN rrule with plastic sleeve	0.5 mm² 1.5 mm²
hermal continuous current I <sub>th</sub>	30 A
laximum load current	36 A (with 6 mm² conductor cross section)
lominal voltage	60 V (the voltage is determined by the light indicator.)
lominal cross section	4 mm²

#### Level 2

Screw thread	M3
Tightening torque	0.6 0.8 Nm
Stripping length	9 mm
Internal cylindrical gage	A4
	B3
Connection in acc. with standard	IEC 60947-7-3
Conductor cross section rigid	0.14 mm² 6 mm²
Cross section AWG	26 10 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 6 mm²
Conductor cross section, flexible [AWG]	26 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 4 mm²
2 conductors with same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Nominal current	6.3 A
Maximum load current	6.3 A (the current is determined by the fuse used)
Nominal voltage	60 V (the voltage is determined by the fuse used)
Nominal cross section	4 mm²

### Ex data

#### Rated data (ATEX/IECEx)

Identification	ⓑ II 3 G Ex ec IIC Gc
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Operating temperature range	-60 °C 130 °C
Ex-certified accessories	1205053 SZS 0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
output	(Permanent)
connection data General	
Torque range	0.6 Nm 0.8 Nm
Nominal cross section	4 mm²
Rated cross section AWG	12
Connection capacity rigid	0.14 mm² 6 mm²
Connection capacity AWG	26 10
Connection capacity flexible	0.14 mm² 6 mm²
Connection capacity AWG	26 10
2 conductors with same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with the same cross-section AWG rigid	26 16
2 conductors with same cross section, stranded	0.14 mm² 1.5 mm²
2 conductors with the same cross-section AWG flexible	26 16
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²
Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG	26 12
output	(Permanent)
s level Level 2	
Rated voltage	500 V
Rated current	20 A (4 mm²)
Maximum load current	20 A (6 mm²)
Contact resistance	0.6 mΩ
Temperature increase	40 K (20 A/4 mm²)
output	(Permanent)
c level Level 3	
Rated voltage	250 V
Rated current	6.3 A (4 mm²)
Maximum load current	6.3 A (6 mm²)
Contact resistance	5 mΩ
ensions	
Width	6.2 mm
Height	92.7 mm
Depth	94.5 mm
p	•• mm
Depth on NS 35/7,5	88.9 mm



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### Material specifications

Color	black (RAL 9005)
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

### Mechanical properties

#### Mechanical data

Open side panel	No
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#### Environmental and real-life conditions

#### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	0.964 (m/s²)²/Hz
Acceleration	0.58g
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	5g
Shock duration	30 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)



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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/IEC 60947-7-2	
	IEC 60947-7-3	

## Mounting

Mounting type	NS 35/7,5
	NS 35/15

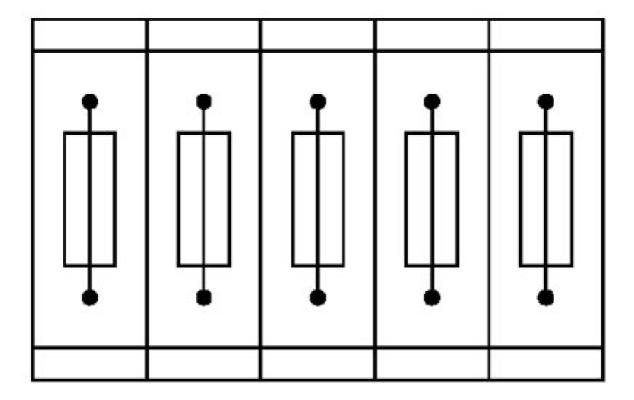


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## Drawings

Application drawing



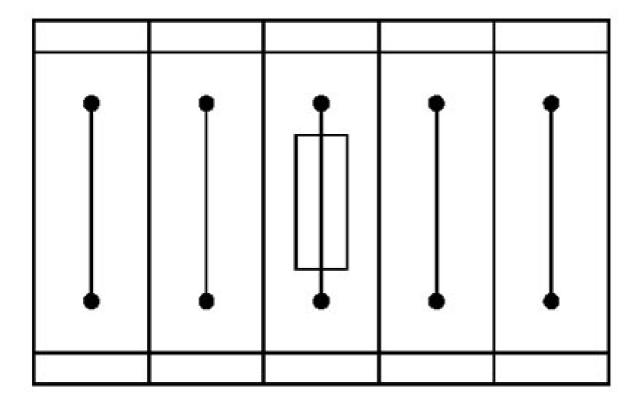
Fuse terminal blocks in interconnected arrangement, block consisting of 5 fuse terminal blocks



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Application drawing



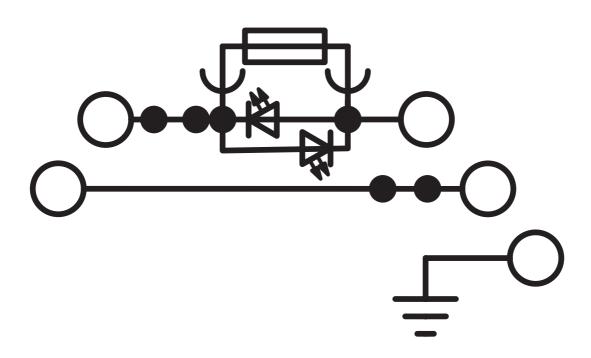
Fuse terminal block in single arrangement, block consisting of one fuse terminal block and 4 feed-through terminal blocks



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## Circuit diagram





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## **Approvals**

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cULus Recognized

Approval ID: E60425



cULus Recognized

Approval ID: E60425

cUL Recognized Approval ID: E192998				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
PE connection	-	-	26 - 10	26 - 10
with cartridge fuse-link	300 V	16 A	26 - 10	26 - 10
middle level	300 V	20 A	26 - 10	26 - 10



**ECE**x

Approval ID: IECExKIWA14.0014U

<b>SUL Recognized</b> Approval ID: E192998				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
PE connection	-	-	26 - 10	-
with cartridge fuse-link	300 V	16 A	26 - 10	-
middle level	300 V	20 A	26 - 10	-



CCC

Approval ID: 2020322313000632



**ATEX** 

Approval ID: KIWA14ATEX0025U



**UKCA-EX** 

Approval ID: CSAE 21UKEX3606U



EAC Ex

Approval ID: KZ 7500525010101950



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## Classifications

UNSPSC 21.0

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	ECLASS-13.0	27250113
ΕΊ	ПМ	
	ETIM 9.0	EC000899
U	NSPSC	

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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	74726d01-71c0-4bb6-9512-a36bf667f25a

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