

ST 35-PE - Ground terminal



3036194

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Ground terminal, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Spring-cage connection, 1 level, Rated cross section: 35 mm², cross section: 2.5 mm² - 35 mm², mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Commercial data

Item number	3036194
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE02
Product key	BE2121
Catalog page	Page 249 (C-1-2019)
GTIN	4017918876760
Weight per piece (including packing)	105.52 g
Weight per piece (excluding packing)	105.52 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Ground terminal block
Number of connections	2
Number of rows	1
Potentials	1

Data management status

Article revision	12
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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

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	35 mm ²

1 level

Stripping length	25 mm
Internal cylindrical gage	A8
Connection in acc. with standard	IEC 60947-7-1
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 current	125 A
Maximum load current	125 A (with 35 mm ² conductor cross section)
Nominal voltage	1000 V
Note	The supply from the ST 35 terminal block to the ST 16 TWIN terminal block with the RB-ST 35 reducing bridge is single-sided only. In the case of a central supply, the D-ST 16-TWIN cover cannot be bridged via the reducing bridge.
Nominal cross section	35 mm ²

Ex data

Rated data (ATEX/IECEx)

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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
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
output	(Permanent)

Ex connection data General

Nominal cross section	35 mm ²
Rated cross section AWG	2
Connection capacity rigid	2.5 mm ² ... 35 mm ²
Connection capacity AWG	14 ... 2
Connection capacity flexible	2.5 mm ² ... 35 mm ²
Connection capacity AWG	14 ... 2

Dimensions

Width	16 mm
Height	100 mm
Depth on NS 35/7,5	59 mm
Depth on NS 35/15	66.5 mm

Material specifications

Color	green-yellow
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))	125 °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)	27,5 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

Mechanical properties

Mechanical data

Open side panel	No
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Environmental and real-life conditions

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Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service 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 35/7,5
	NS 35/15

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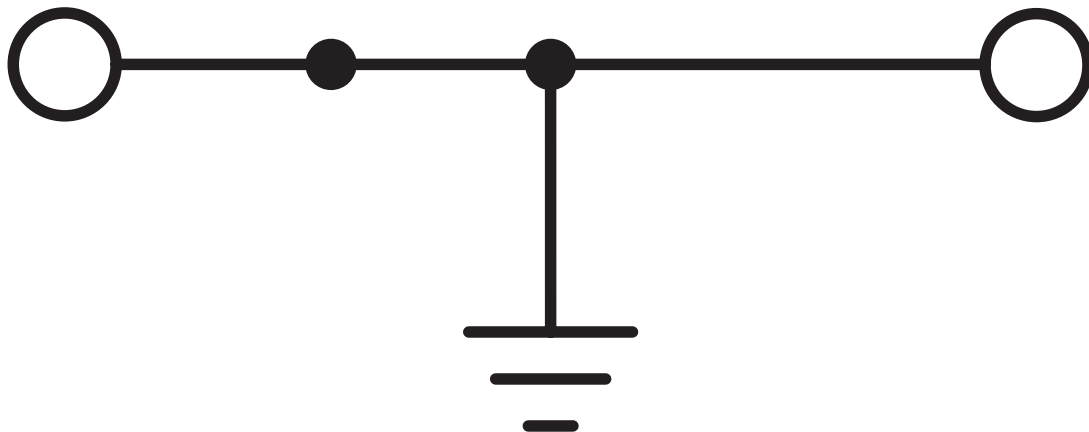
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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3036194>

 CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	-	-	14 - 2	-
Use group C				
	-	-	14 - 2	-

 IECEE CB Scheme Approval ID: DE1-62982				
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 KR Approval ID: HMB17372-EL002				
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 NK Approval ID: 09 ME 140				
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 EAC Ex Approval ID: RU C-DE.HA91.B.00066				
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 CCC Approval ID: 2020322313000621				
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 UKCA-EX Approval ID: DEKRA 21UKEX0303U				
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Classifications

ECLASS

ECLASS-11.0	27141141
ECLASS-13.0	27250103

ETIM

ETIM 9.0	EC000901
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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
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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