

UT 35-PE IB - Ground terminal



3047743

<https://www.phoenixcontact.com/sg/products/3047743>

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Ground terminal, with Allen screws, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Screw connection, Rated cross section: 35 mm², cross section: 1.5 mm² - 35 mm², mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Your advantages

- The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- Tested for railway applications

Commercial data

Item number	3047743
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	0180*
Product key	BE1121
GTIN	4046356178495
Weight per piece (including packing)	87.63 g
Weight per piece (excluding packing)	83.8 g
Customs tariff number	85369010
Country of origin	TR

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Technical data

Product properties

Product type	Ground terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	2
Number of rows	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

Level 1 above 1 below 1

Screw thread	M6
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	3.2 ... 3.7 Nm
Stripping length	18 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	1.5 mm ² ... 35 mm ²
Cross section AWG	14 ... 0 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm ² ... 35 mm ²
Conductor cross section, flexible [AWG]	14 ... 0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm ² ... 35 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm ² ... 35 mm ²
Nominal current	17.5 A
Nominal voltage	500 V
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.
Nominal cross section	35 mm ²

Ex data

Rated data (ATEX/IECEx)

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Identification	Ⓜ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1212640 SF-THEX 4-150
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
output	(Permanent)

Ex connection data General

Torque range	3.2 Nm ... 3.7 Nm
Nominal cross section	35 mm²
Rated cross section AWG	2
Connection capacity rigid	1.5 mm² ... 35 mm²
Connection capacity AWG	16 ... 2
Connection capacity flexible	1.5 mm² ... 35 mm²
Connection capacity AWG	16 ... 2

Dimensions

Width	16 mm
End cover width	2.2 mm
Height	61.2 mm
Depth	65.1 mm
Depth on NS 35/7,5	65.7 mm
Depth on NS 35/15	73.2 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))	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

Mechanical properties

Mechanical data

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Open side panel	No
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Environmental and real-life conditions

Oscillation/broadband noise

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

Shocks

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.)

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

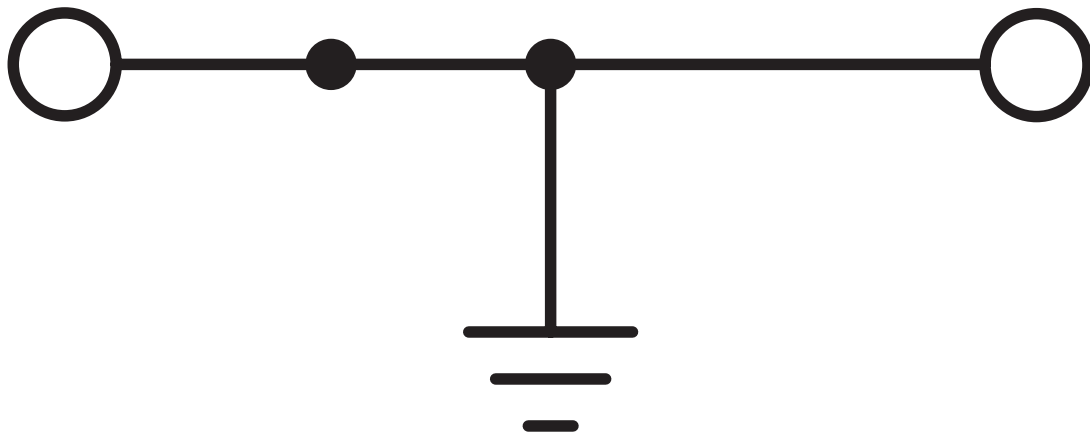
Connection in acc. with standard	IEC 60947-7-2
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Mounting

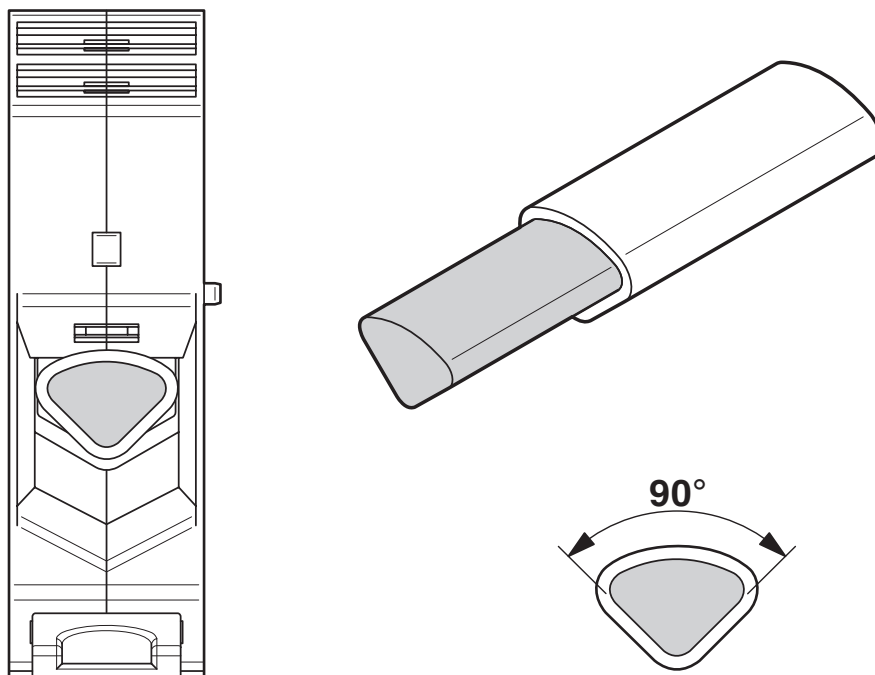
Mounting type	NS 35/7,5
	NS 35/15

Drawings

Circuit diagram



Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3047743>

DNV

Approval ID: TAE00001S9



CSA

Approval ID: 13631



cULus Recognized

Approval ID: E60425



CSA

Approval ID: 13631



cULus Recognized

Approval ID: E60425



ATEX

Approval ID: KEMA04ATEX2048U



cUL Recognized

Approval ID: E192998

Nominal voltage U_N

Nominal current I_N

Cross section AWG

Cross section mm^2

-

-

14 - 2

-



EAC Ex

Approval ID: KZ 7500525010101950



IECEx

Approval ID: IECEx KEM 06.0027U



UL Recognized

Approval ID: E192998

Nominal voltage U_N

Nominal current I_N

Cross section AWG

Cross section mm^2

-

-

14 - 2

-

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CCC

Approval ID: 2020322313000622



UKCA-EX

Approval ID: DEKRA 21UKEX0304U

cULus Recognized

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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
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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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