

UT 35-PE IB - Protective conductor terminal block



3047743

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Protective conductor terminal block, 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	BE01
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
Product family	UT
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

Connection method	Screw connection
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

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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	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 mm ²
Rated cross section AWG	2
Connection capacity rigid	1.5 mm ² ... 35 mm ²
Connection capacity AWG	16 ... 2
Connection capacity flexible	1.5 mm ² ... 35 mm ²
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

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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):2018-05
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

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

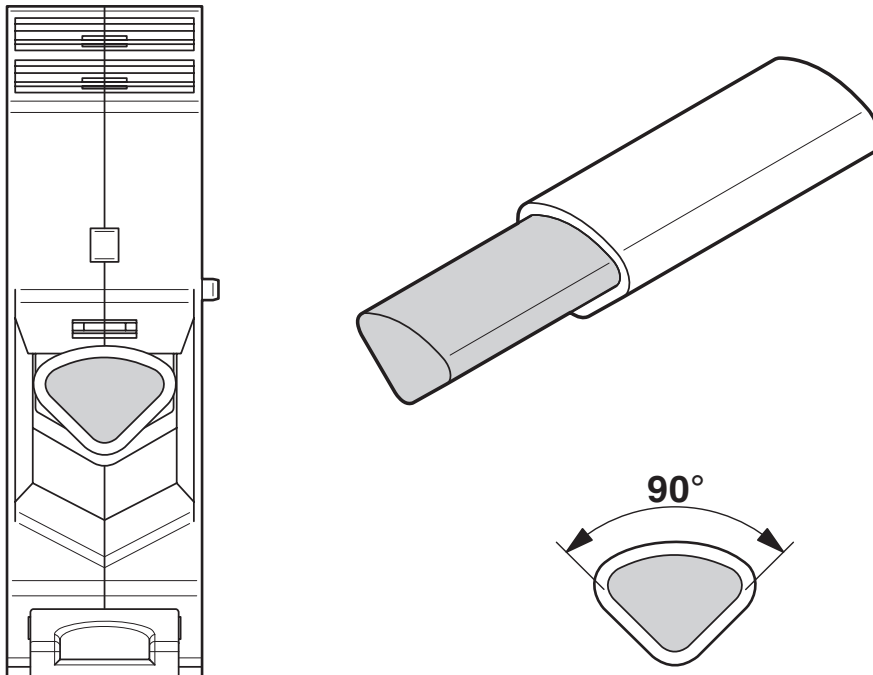
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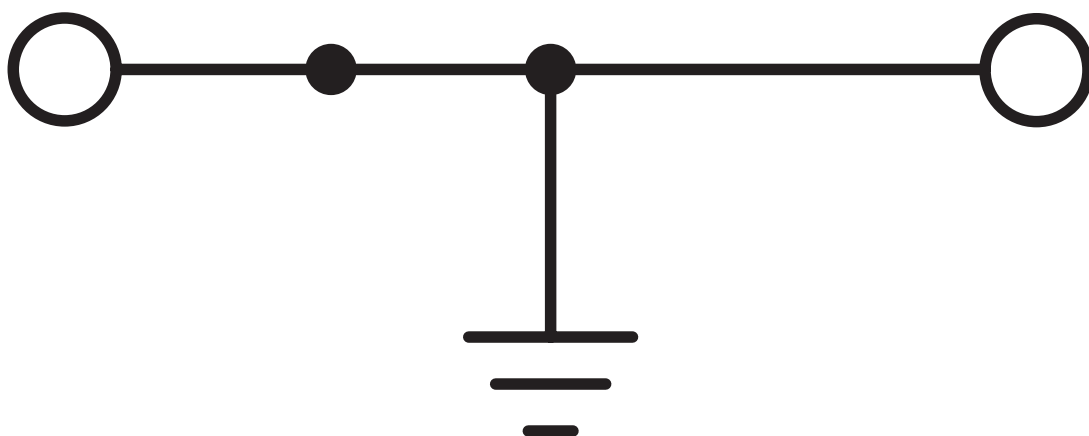
Drawings

Schematic diagram



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

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/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
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**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
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CCC
Approval ID: 2020322313000622



UKCA-EX
Approval ID: DEKRA 21UKEX0304U

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Classifications

ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	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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