

QTC 2,5-PE - Protective conductor terminal block



3206432

<https://www.phoenixcontact.com/us/products/3206432>

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Protective conductor terminal block, number of connections: 2, number of positions: 1, connection method: Quick connection, 1 level, cross section: 0.5 mm^2 - 2.5 mm^2 , mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Your advantages

- Same shape and pitch as the feed-through terminal blocks
- Contact is made free from mechanical and electrical errors by simply snapping onto the DIN rail
- All the requirements of standard IEC 60947-7-2 are met
- Tested for railway applications

Commercial data

Item number	3206432
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE03
Product key	BE3121
GTIN	4017918976057
Weight per piece (including packing)	13.058 g
Weight per piece (excluding packing)	11.988 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

Product properties

Product type	Ground terminal block
Product family	QTC
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of positions	1
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	0.77 W

Connection data

Number of connections per level	2
Frequency of connections with the same cross section	100
Nominal cross section	2.5 mm ²

1 level

Note	Please observe the current carrying capacity of the DIN rails.
Material wire insulation	PVC / PE
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	0.5 mm ² ... 2.5 mm ²
Cross section AWG	20 ... 14 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	20 ... 14 (converted acc. to IEC)

Ex data

Rated data (ATEX/IECEx)

Identification	⚡ II 2 GD Ex eb IIC Gb
Operating temperature range	-45 °C ... 90 °C
Ex-certified accessories	3206568 D-QTC 2,5
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
output	(Permanent)

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Ex connection data General

Nominal cross section	2.5 mm²
Rated cross section AWG	14
Connection capacity rigid	0.5 mm² ... 2.5 mm²
Connection capacity AWG	20 ... 14
Connection capacity flexible	0.5 mm² ... 2.5 mm²
Connection capacity AWG	20 ... 14
Frequency of connections with the same cross section	100

Dimensions

Width	6.2 mm
End cover width	2.2 mm
Height	62.6 mm
Depth on NS 35/7,5	39.3 mm
Depth on NS 35/15	46.8 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

Cable/line

Wire diameter incl. insulation	3.8 mm
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Mechanical properties

Mechanical data

Open side panel	Yes
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Environmental and real-life conditions

Ambient conditions

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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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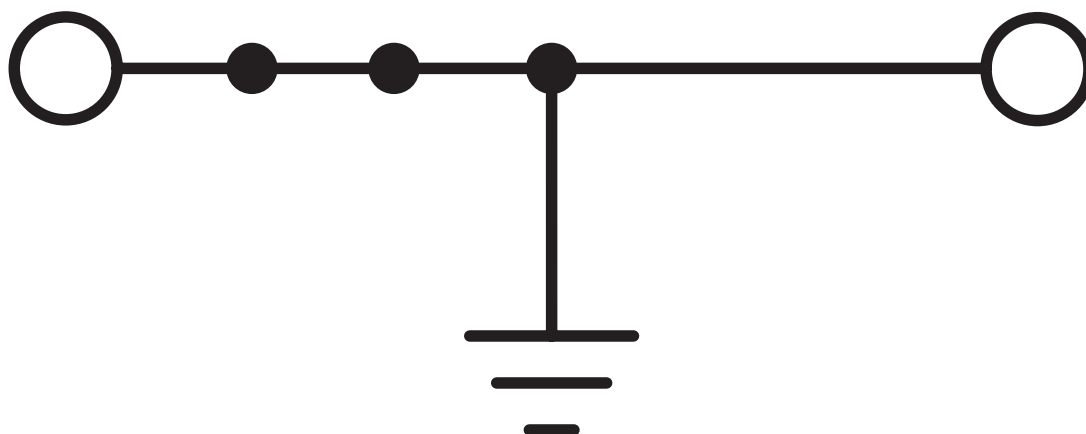
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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3206432>

CSA Approval ID: 2030668				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	20 - 14	-

cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	-	-	20 - 14	-
Use group C				
	-	-	20 - 14	-

ClassNK Approval ID: 09 ME 139				
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ABS Approval ID: 22-2196825-PDA				
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DNV Approval ID: TAE000014H				
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IECEx Approval ID: IECExKIWA19.0011U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	-	0.5 - 2.5

ATEX Approval ID: KIWA19ATEX0019U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Type examination certificate	-	-	-	0.5 - 2.5

CCC Approval ID: 2020322313000625				
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UKCA-EX

Approval ID: CSAE 22UKEX1429U

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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
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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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