

# QTC 1,5-QUATTRO-PE - Protective conductor terminal block

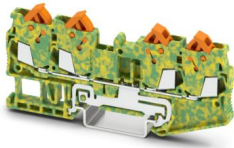


3205093

<https://www.phoenixcontact.com/us/products/3205093>

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Protective conductor terminal block, number of connections: 4, connection method: Quick connection, 1 level, cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/7,5, color: green-yellow



## Your advantages

- Fast conductor connection thanks to the elimination of conductor pretreatment
- Large-area, gas-tight contact thanks to the automated cutting of the wire insulation
- Meet the requirements of DIN EN 60947-7-2 or IEC 60947-7-2 for protective conductor connections
- High level of safety thanks to the low-resistance connection to the ground potential via the top-hat rail
- Direct contacting with the DIN rail enables fast, error-free grounding without additional wiring effort.
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Secure wiring thanks to lockable swivel lever

## Commercial data

Item number	3205093
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE03
Product key	BE3123
GTIN	4017918932480
Weight per piece (including packing)	18.09 g
Weight per piece (excluding packing)	16.46 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 connections	4
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	0.56 W

### Connection data

Grounding foot	Yes
Number of connections per level	4
Frequency of connections with the same cross section	100
Nominal cross section	1.5 mm <sup>2</sup>

#### 1 level

Connection method	Quick connection
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	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG	24 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	24 ... 16 (converted acc. to IEC)
Cross section, sensor conductors	0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>

### Ex data

#### Rated data (ATEX/IECEx)

Identification	Ⓔ II 2 GD Ex eb IIC Gb
Operating temperature range	-45 °C ... 90 °C
Ex-certified accessories	3205174 D-QTC 1,5-QUATTRO
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5

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	3022218 CLIPFIX 35
output	(Permanent)

## Ex connection data General

Nominal cross section	1.5 mm <sup>2</sup>
Rated cross section AWG	16
Connection capacity rigid	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection capacity AWG	24 ... 16
Connection capacity flexible	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection capacity AWG	24 ... 16
Frequency of connections with the same cross section	100

## Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	94 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 mm
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## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Environmental and real-life conditions

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3205093

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## 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 35/7,5

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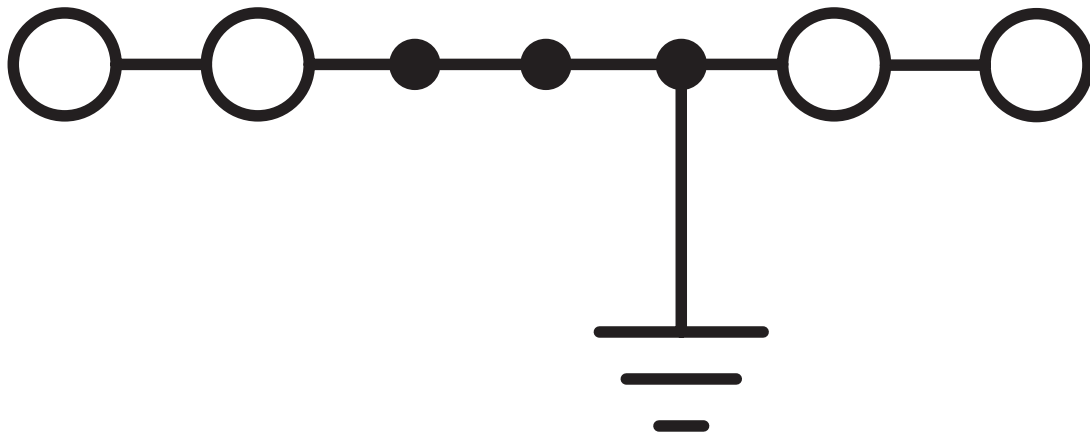


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3205093>

 <b>CSA</b> Approval ID: 158887				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	-	-	24 - 16	-

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00539				
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 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
B				
	-	-	24 - 16	-
C				
	-	-	24 - 16	-


 <b>ClassNK</b>				
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**NK**  
Approval ID: 09 ME 139

<b>ABS</b> Approval ID: 22-2196825-PDA				
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<b>DNV</b> Approval ID: TAE000014H				
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 <b>EAC Ex</b> Approval ID: KZ 7500525010101950				
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 <b>IECEx</b> Approval ID: IECExKIWA19.0011U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	-	-	-	0.25 - 1.5


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 <b>ATEX</b> Approval ID: KIWA19ATEX0019U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Type examination certificate	-	-	-	0.25 - 1.5

 <b>CCC</b> Approval ID: 2020322313000625				
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 <b>UKCA-EX</b> Approval ID: CSAE 22UKEX1429U				
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## Classifications

### ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	27250103

### ETIM

ETIM 10.0	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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### EF3.1 Climate Change

CO2e kg	0.119 kg CO2e
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