

# QTC 1,5-TWIN-TG - Disconnect terminal block

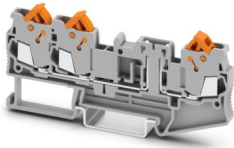


3050413

<https://www.phoenixcontact.com/us/products/3050413>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Disconnect terminal block, nom. voltage: 400 V, nominal current: 17.5 A, number of connections: 3, connection method: Quick connection, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray



## 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
- Individual and easy assembly with isolating plug, fuse plug, component connector, and feed-through connector
- High contact quality and vibration resistance thanks to the use of high-quality spring contact material
- Secure wiring thanks to lockable swivel lever

## Commercial data

Item number	3050413
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE03
Product key	BE3132
GTIN	4046356079273
Weight per piece (including packing)	13.16 g
Weight per piece (excluding packing)	13.46 g
Customs tariff number	85369010
Country of origin	CN

# QTC 1,5-TWIN-TG - Disconnect terminal block



3050413

<https://www.phoenixcontact.com/us/products/3050413>

## Technical data

### Notes

General	The max. load current must not be exceeded by the total current of all connected conductors. Current and voltage are determined by the plug used.
---------	------------------------------------------------------------------------------------------------------------------------------------------------------

### Product properties

Product type	Disconnect terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	3
Number of rows	1
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

### Connection data

Number of connections per level	3
Frequency of connections with the same cross section	100
Nominal cross section	1.5 mm <sup>2</sup>
Connection method	Quick connection
Material wire insulation	PVC / PE
Connection in acc. with standard	IEC 60947-7-1
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)
Nominal cross section	1.5 mm <sup>2</sup>
Nominal current	17.5 A
Maximum load current	17.5 A (with 1.5 mm <sup>2</sup> conductor cross-section)
Nominal voltage	400 V

### Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	94 mm
Depth	39.3 mm

# QTC 1,5-TWIN-TG - Disconnect terminal block



3050413

<https://www.phoenixcontact.com/us/products/3050413>

Depth on NS 35/7,5	39.3 mm
Depth on NS 35/15	46.8 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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
--------------------------------	------

## Electrical tests

### Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq$ 45 K
Result	Test passed
	Test passed
Short-time withstand current 1.5 mm <sup>2</sup>	0.18 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
-----------------	-----

## Mechanical tests

### Mechanical strength

Result	Test passed
--------	-------------

# QTC 1,5-TWIN-TG - Disconnect terminal block



3050413

<https://www.phoenixcontact.com/us/products/3050413>

## Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Test force setpoint	1 N
Result	Test passed

## Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm <sup>2</sup> / 0.2 kg 1.5 mm <sup>2</sup> / 0.4 kg
Result	Test passed

## Environmental and real-life conditions

### Aging

Temperature cycles	192
Result	Test passed

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	EN 50155:2021-07
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	30.6 m/s <sup>2</sup>
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Pulse shape	Half-sine
Acceleration	300 m/s <sup>2</sup>
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

# QTC 1,5-TWIN-TG - Disconnect terminal block



3050413

<https://www.phoenixcontact.com/us/products/3050413>

Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
----------------------------------	---------------

## Mounting

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

# QTC 1,5-TWIN-TG - Disconnect terminal block

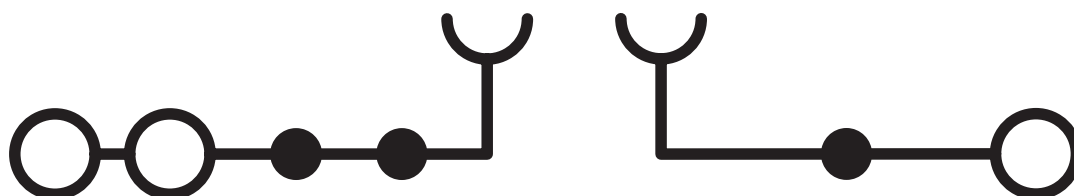
3050413

<https://www.phoenixcontact.com/us/products/3050413>



## Drawings

Circuit diagram



# QTC 1,5-TWIN-TG - Disconnect terminal block



3050413

<https://www.phoenixcontact.com/us/products/3050413>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3050413>



**EAC**

Approval ID: RU C-DE.BL08.B.00539

# QTC 1,5-TWIN-TG - Disconnect terminal block



3050413

<https://www.phoenixcontact.com/us/products/3050413>

## Classifications

### ECLASS

ECLASS-13.0	27250108
ECLASS-15.0	27250108

### ETIM

ETIM 10.0	EC000902
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# QTC 1,5-TWIN-TG - Disconnect terminal block



3050413

<https://www.phoenixcontact.com/us/products/3050413>

## 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%
-------------------------------------	----------------------------

### EF3.1 Climate Change

CO2e kg	0.199 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)