

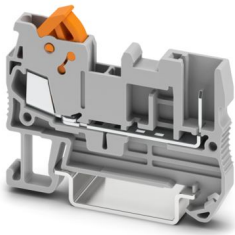
# QTC 1,5/ 1P - Feed-through terminal block



3050073

<https://www.phoenixcontact.com/us/products/3050073>

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.



Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Fast/plug-in connection, Rated cross section: 1.5 mm<sup>2</sup>, 1st level connection left, cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, 1st level connection right, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Ground terminal blocks of the same shape are available
- Tested for railway applications

## Commercial data

Item number	3050073
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE03
Product key	BE3141
GTIN	4017918975784
Weight per piece (including packing)	6.806 g
Weight per piece (excluding packing)	6.739 g
Customs tariff number	85369010
Country of origin	CN

# QTC 1,5/ 1P - Feed-through terminal block



3050073

<https://www.phoenixcontact.com/us/products/3050073>

## Technical data

### Notes

General	Current and voltage are determined by the plug used.
---------	--

### Product properties

Product type	Plug-in terminal block
Product family	QTC
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	2
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	2
Frequency of connections with the same cross section	100
Nominal cross section	1.5 mm <sup>2</sup>

### 1st level connection left

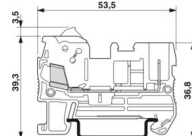
Connection method	Fast/plug-in connection
Material wire insulation	PVC / PE
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG	24 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	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>
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	500 V

### Dimensions

# QTC 1,5/ 1P - Feed-through terminal block

3050073

<https://www.phoenixcontact.com/us/products/3050073>

Dimensional drawing	
Width	5.2 mm
End cover width	2.2 mm
Height	53.5 mm
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
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
--------------------------------	--------

## Electrical tests

### Surge voltage test

Result	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

# QTC 1,5/ 1P - Feed-through terminal block



3050073

<https://www.phoenixcontact.com/us/products/3050073>

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

## Mechanical tests

### Attachment on the carrier

DIN rail/fixing support	NS 35
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### 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 $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 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 ... 100 °C (max. operating temperature range including self-heating, see derating curve)
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 61984
----------------------------------	-----------

## Mounting

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

# QTC 1,5/ 1P - Feed-through terminal block

3050073

<https://www.phoenixcontact.com/us/products/3050073>



---

NS 35/15

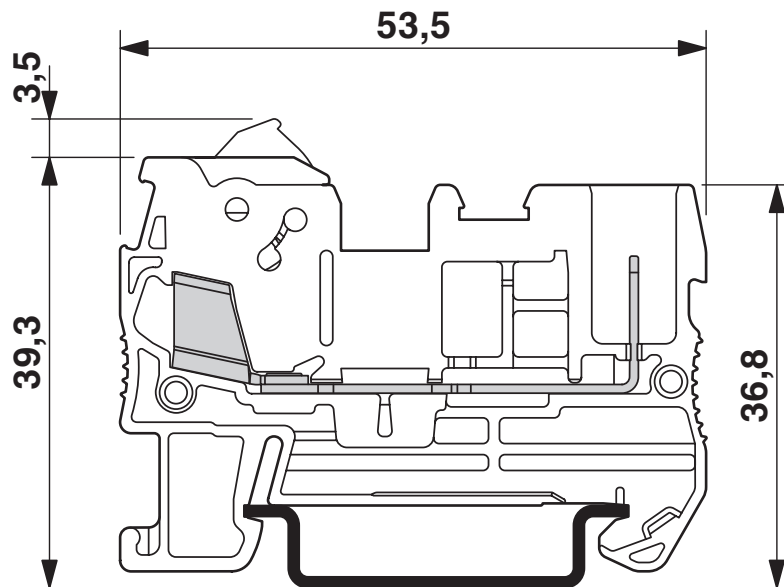
# QTC 1,5/ 1P - Feed-through terminal block

3050073

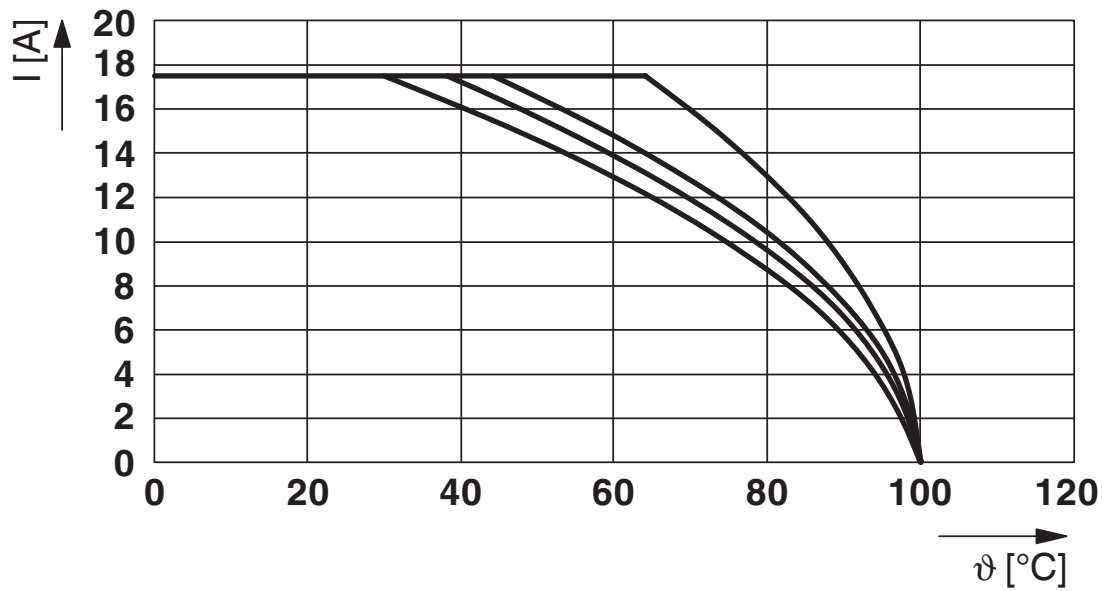
<https://www.phoenixcontact.com/us/products/3050073>

## Drawings

Dimensional drawing



Diagram

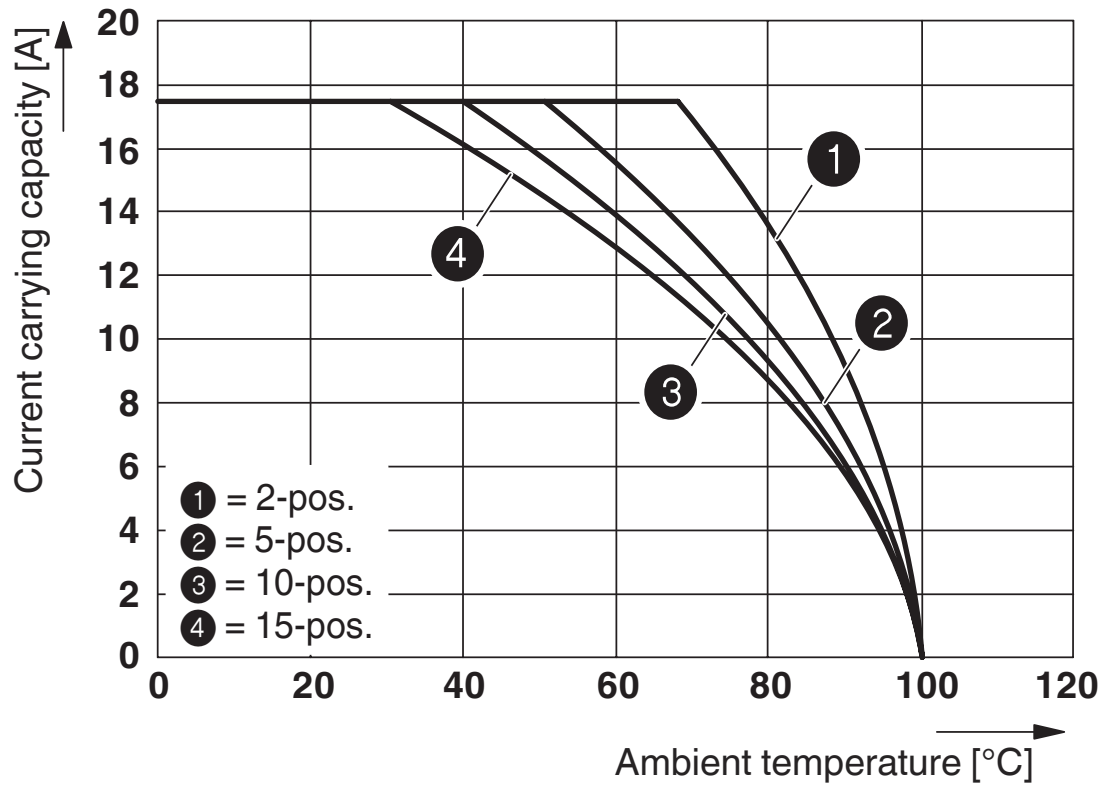


# QTC 1,5/ 1P - Feed-through terminal block

3050073

<https://www.phoenixcontact.com/us/products/3050073>

Diagram



The figure shows the derating curve of the QTC 1,5/ 1P... terminal block in connection with the QP 1,5 plug

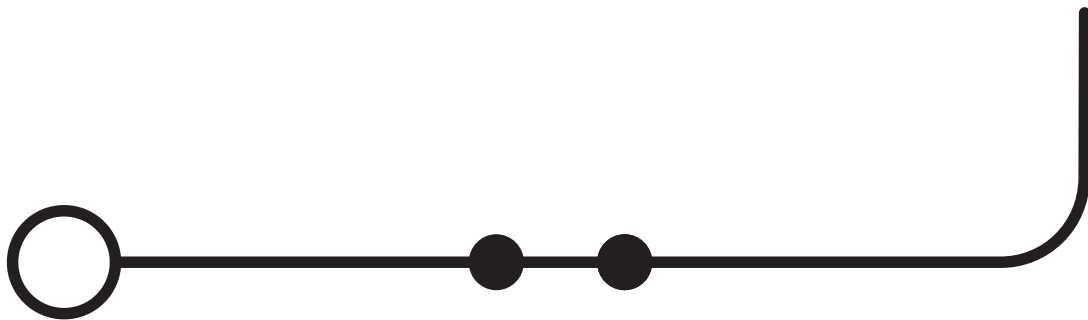
# QTC 1,5/ 1P - Feed-through terminal block

3050073

<https://www.phoenixcontact.com/us/products/3050073>



Circuit diagram



# QTC 1,5/ 1P - Feed-through terminal block





3050073

<https://www.phoenixcontact.com/us/products/3050073>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3050073>

 <b>CSA</b> Approval ID: 158887				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	600 V	10 A	24 - 16	-
C	600 V	10 A	24 - 16	-

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	600 V	10 A	24 - 16	-
C	600 V	10 A	24 - 16	-

# QTC 1,5/ 1P - Feed-through terminal block



3050073

<https://www.phoenixcontact.com/us/products/3050073>

## Classifications

### ECLASS

ECLASS-13.0	27250117
ECLASS-15.0	27250117

### ETIM

ETIM 10.0	EC000897
-----------	----------

### UNSPSC

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

# QTC 1,5/ 1P - Feed-through terminal block



3050073

<https://www.phoenixcontact.com/us/products/3050073>

## 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	0.035 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)