

## Feed-through terminal block - QTC 2,5 - 3206416

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Feed-through terminal block, Connection method: Quick connection, Cross section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 20 - 14, Width: 6.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Product Features

- ✓ Compact design
- ✓ Tested for railway applications



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	10.4 GRM
Custom tariff number	85369010
Country of origin	China

### Technical data

#### General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
	Mechanical engineering
	Plant engineering
	Process industry
Maximum load current	24 A (with 2.5 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV

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### Technical data

#### General

Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	800 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.5 mm <sup>2</sup> / 0.3 kg 2.5 mm <sup>2</sup> / 0.7 kg
Result of bending test	Test passed
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
ASD level	1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	0.8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis

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### Technical data

#### General

Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C

#### Dimensions

Width	6.2 mm
Length	62.6 mm
Height NS 35/7,5	39.3 mm
Height NS 35/15	46.8 mm

#### Connection data

Connection in acc. with standard	IEC 60947-7-1
Connection method	Quick connection
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	20
Max. AWG conductor cross section, stranded	14
Material wire insulation	PVC / PE
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 Cl.1-5
Max. wire diameter incl. insulation	3.8 mm

### Classifications

#### eCl@ss

eCl@ss 4.0	27141130
eCl@ss 4.1	27141130
eCl@ss 5.0	27141130

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## Classifications

### eCl@ss

eCl@ss 5.1	27141130
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

### ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

## Approvals

### Approvals

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#### Approvals

CSA / UL Recognized / cUL Recognized / GOST / GL / BV / DNV / ABS / NK / GOST / cULus Recognized

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#### Ex Approvals

IECEX / ATEX

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#### Approvals submitted

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#### Approval details

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## Approvals

CSA		
	B	C
mm <sup>2</sup> /AWG/kcmil	20-14	20-14
Nominal current I <sub>N</sub>	15 A	15 A
Nominal voltage U <sub>N</sub>	600 V	600 V

UL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	20-14	20-14
Nominal current I <sub>N</sub>	15 A	15 A
Nominal voltage U <sub>N</sub>	600 V	600 V

cUL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	20-14	20-14
Nominal current I <sub>N</sub>	15 A	15 A
Nominal voltage U <sub>N</sub>	600 V	600 V

GOST		
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GL
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BV
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DNV
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ABS
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NK
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### Approvals

GOST 

cULus Recognized 

### Drawings

Circuit diagram

