

# 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

package_quantity	50
GTIN	4017918976033

## 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
Area of application	Mechanical engineering
Area of application	Plant engineering
Area of application	Process industry

### General

Maximum load current	24 A (with 2.5 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV
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

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## Technical data

### General

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
Bending test conductor cross section/weight	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
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

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

## Technical data

### General

Static insulating material application in cold	-60 °C
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### 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

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
Connection method	Quick connection
Material wire insulation	PVC / PE
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 Cl.1-5

## classifications

### eCl@ss

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

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

## classifications

### UNSPSC


<b>UNSPSC 13.2</b>	39121410
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## approvals


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

## Approval details

IECEX	
Nominal voltage UN	550 V
Nominal current IN	22.5 A
mm <sup>2</sup> /AWG/kcmil	0.5-2.5

ATEX 	
Nominal voltage UN	550 V
Nominal current IN	22.5 A
mm <sup>2</sup> /AWG/kcmil	0.5-2.5

CSA 		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	15 A	15 A
mm <sup>2</sup> /AWG/kcmil	20-14	20-14

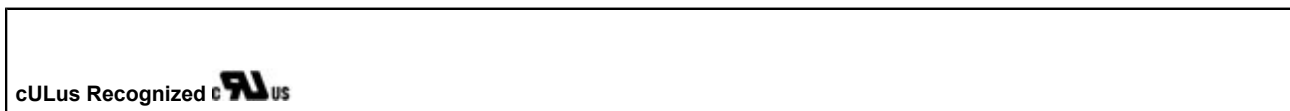
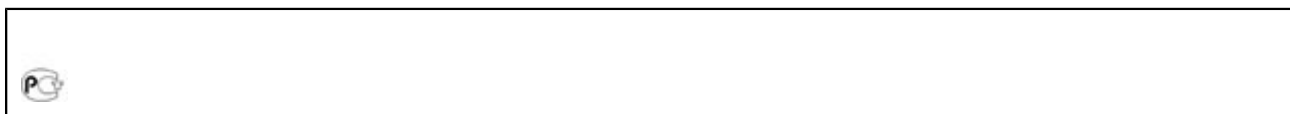
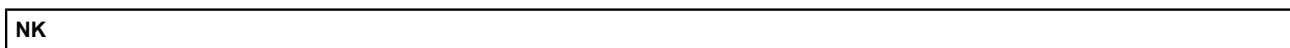
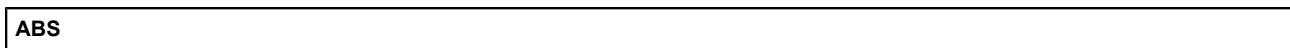
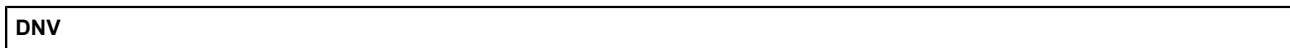
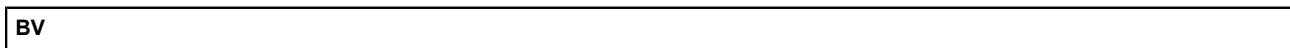
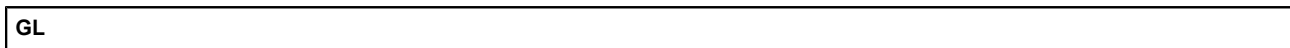
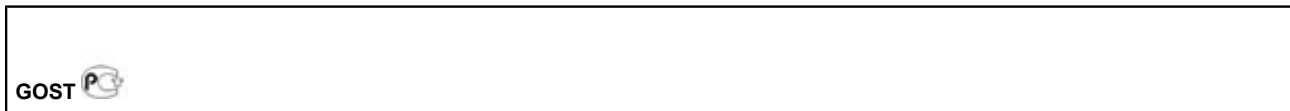
UL Recognized 		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	15 A	15 A
mm <sup>2</sup> /AWG/kcmil	20-14	20-14

cUL Recognized 		
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## approvals

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	15 A	15 A
mm <sup>2</sup> /AWG/kcmil	20-14	20-14



## accessories

### End cover

D-QTC 2,5 - 3206568



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

### accessories

DP PS-6 - 3036738



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### Partition plate

ATP-QTC - 3206209



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### Screwdriver tools

SZF 1-0,6X3,5 - 1204517



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### Documentation

QTC-IL - 3039926



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### Bridge

FBS 2-6 - 3030336



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

## accessories

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FBS 3-6 - 3030242



FBS 4-6 - 3030255



FBS 5-6 - 3030349



FBS 10-6 - 3030271



FBS 20-6 - 3030365



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

accessories

FBS 50-6 - 3032224



RB ST (2,5/4)-1,5 - 3038943



### Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



NS 35/ 7,5 WH PERF 2000MM - 1204119





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

### accessories

NS 35/ 7,5 WH UNPERF 2000MM - 1204122



NS 35/ 7,5 AL UNPERF 2000MM - 0801704



NS 35/ 7,5 ZN PERF 2000MM - 1206421



NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



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

accessories

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NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



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

### accessories

NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



### Terminal marking

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## accessories

ZB 6:UNBEDRUCKT - 1051003



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UC-TM 6 - 0818085



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UCT-TM 6 - 0828736



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ZBF 6:UNBEDRUCKT - 0808710



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UC-TMF 6 - 0818140



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UCT-TMF 6 - 0828746



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

accessories

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## Labeled terminal marker

ZB 6 CUS - 0824992



UC-TM 6 CUS - 0824589



UCT-TM 6 CUS - 0829602



ZBF 6 CUS - 0825027



UC-TMF 6 CUS - 0824646



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

accessories

UCT-TMF 6 CUS - 0829665



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### Test plug terminal block

PAI-4-FIX-5/6 BU - 3035975



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PAI-4-FIX-5/6 OG - 3035974



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PAI-4-FIX-5/6 YE - 3035977



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PAI-4-FIX-5/6 RD - 3035976



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

### accessories

PAI-4-FIX-5/6 GN - 3035978



PAI-4-FIX-5/6 BK - 3035980



PAI-4-FIX-5/6 GY - 3035982



PAI-4-FIX-5/6 VT - 3035979



PAI-4-FIX-5/6 BN - 3035981



PS-6 - 3030996



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

accessories

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PS-6/2,3MM RD - 3038736



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## End block

CLIPFIX 35 - 3022218



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CLIPFIX 35-5 - 3022276



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E/NS 35 N - 0800886



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## Drawings

Circuit diagram

