

## Disconnect terminal block - QTC 2,5-TG - 3206490

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Disconnect terminal block, Connection type: Quick connection, Cross section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 20 - 14, Nominal current: 20 A, Nominal voltage: 400 V, Length: 82.5 mm, Width: 6.2 mm, Color: gray, Assembly: NS 35/7,5, NS 35/15

### Product Features

- Tested for railway applications
- The P-CO(3) component plug is used to accommodate different components such as resistors or diodes
- The P-DI (2) isolating plug can be used in all disconnect terminal blocks. Following disconnection, the P-DI can be "parked" back to front in the basic terminal block.
- The insulated P-FIX (1) feed-through connector enables the installation of a feed-through terminal of the same shape
- Triple bridge shaft enables individual potential distribution and supply



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
Weight per Piece (excluding packing)	12.836 g
Custom tariff number	85369010
Country of origin	China

### Technical data

#### General

Note	Current and voltage are determined by the plug used.
Number of levels	1
Number of connections	2
Nominal cross section	2.5 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry

## Disconnect terminal block - QTC 2,5-TG - 3206490

### Technical data

#### General

	Machine building
	Plant engineering
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current $I_N$	20 A
Maximum load current	20 A (with a 2.5 mm <sup>2</sup> conductor cross section)
Nominal voltage $U_N$	400 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	67.5 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	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
Tensile test result	Test passed
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of voltage-drop test	Test passed
Result of temperature-rise test	Test passed
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03

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### Technical data

#### General

Test spectrum	Service life test category 1, class B, body mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02 g <sup>2</sup> /Hz
Acceleration	0,8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock 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.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	120 °C

#### Dimensions

Width	6.2 mm
Length	82.5 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 flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	14
Connection method	Quick connection
Max. wire diameter incl. insulation	3.8 mm
Material wire insulation	PVC / PE
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 Cl.1-5

#### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0

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## Classifications

### eCl@ss

eCl@ss 4.0	27141117
eCl@ss 4.1	27141117
eCl@ss 5.0	27141130
eCl@ss 5.1	27141130
eCl@ss 6.0	27141126
eCl@ss 7.0	27141126
eCl@ss 8.0	27141126
eCl@ss 9.0	27141126

### ETIM

ETIM 2.0	EC000902
ETIM 3.0	EC000902
ETIM 4.0	EC000902
ETIM 5.0	EC000902

### 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 / GL / BV / DNV / ABS / NK / EAC / LR / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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## Approvals

CSA			
	B	C	D
mm <sup>2</sup> /AWG/kcmil	20-14	20-14	20-14
Nominal current IN	15 A	15 A	5 A
Nominal voltage UN	300 V	300 V	600 V

UL Recognized				
		B	C	D
mm <sup>2</sup> /AWG/kcmil	20-14	20-14	20-14	20-14
Nominal current IN	15 A	15 A	15 A	10 A
Nominal voltage UN	300 V	300 V	150 V	300 V

cUL Recognized				
		B	C	D
mm <sup>2</sup> /AWG/kcmil	20-14	20-14	20-14	20-14
Nominal current IN	15 A	15 A	15 A	10 A
Nominal voltage UN	300 V	300 V	150 V	300 V

GL

BV

DNV

ABS

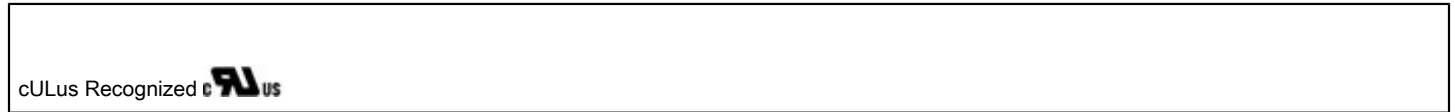
NK

EAC

LR

## Disconnect terminal block - QTC 2,5-TG - 3206490

### Approvals



### Drawings

Circuit diagram

