

XTV 10-TWIN - Feed-through terminal block



1329603

<https://www.phoenixcontact.com/us/products/1329603>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 3, number of positions: 1, connection method: Push-X-connection, Rated cross section: 10 mm², cross section: 1.5 mm² - 16 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- Fast, powerless conductor connection for all conductor types with the pretensioned contact spring
- A high level of flexibility when inserting conductors enables conductors with or without ferrules to be connected easily
- Clear conductor connection with the lateral connection direction and the clear pusher position
- Easy procurement of information – the QR code on the terminal block provides all important information about the product
- Terminal blocks with Push-X connection are part of the COMPLETE line system

Commercial data

Item number	1329603
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE25
Product key	BE2512
GTIN	4063151624538
Weight per piece (including packing)	43.66 g
Weight per piece (excluding packing)	41.292 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

Product properties

Product type	Multi-conductor terminal block
Product family	XTV
Area of application	Railway industry Machine building Plant engineering
Number of positions	1
Number of connections	3
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Maximum power dissipation for nominal condition	1.82 W
Test surge voltage	8 kV

Connection data

Number of connections per level	3
Nominal cross section	10 mm ²
Connection method	Push-X-connection
Stripping length	16 mm ... 18 mm
Internal cylindrical gage	A6 B5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	1.5 mm ² ... 16 mm ²
Cross section AWG	14 ... 6 (converted acc. to IEC)
Conductor cross-section flexible	2.5 mm ² ... 16 mm ²
Conductor cross-section, flexible [AWG]	12 ... 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm ² ... 10 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm ² ... 10 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm ² ... 6 mm ²
Nominal current	57 A
Maximum load current	70 A (with a 16 mm ² conductor cross-section, rigid)
Nominal voltage	1000 V
Nominal cross section	10 mm ²

Dimensions

Width	10.2 mm
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End cover width	2.2 mm
Height	89.1 mm
Depth	68.5 mm
Depth on NS 35/7,5	70 mm
Depth on NS 35/15	77.5 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

Electrical tests

Surge voltage test

Result	Test passed
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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 10 mm ²	1.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

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DIN rail/fixing support	NS 35
Result	Test passed

Test for conductor damage and slackening

Rotation speed	9 rpm
Revolutions	135
Conductor cross-section/weight	1.5 mm ² / 0.4 kg
	10 mm ² / 2 kg
	16 mm ² / 2.9 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	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	30g
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

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

Standards and regulations

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

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

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Drawings

Circuit diagram



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Approvals

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		CSA		
		Approval ID: 2030668		
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
B		600 V	55 A	12 - 6
C		600 V	55 A	12 - 6

		cULus Recognized		
		Approval ID: E60425		
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
B		600 V	55 A	12 - 6
C		600 V	55 A	12 - 6
F		1000 V	55 A	12 - 6

DNV	
Approval ID: TAE000050T	

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Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 9.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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%
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