

Feed-through terminal block - XTV 16 BU



1329673

<https://www.phoenixcontact.com/gb/products/1329673>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, connection method: Push-X-connection, Rated cross section: 16 mm², cross section: 2.5 mm² - 25 mm², mounting type: NS 35/7,5, NS 35/15, color: blue

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

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Commercial Data

Item number	1329673
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	BE2511
Product Key	BE2511
GTIN	4063151625047
Weight per Piece (including packing)	44.02 g
Weight per Piece (excluding packing)	43.5 g
Customs tariff number	85369010
Country of origin	CN

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Technical Data

Product properties

Product type	Feed-through terminal block
Number of positions	1
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	2
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

Number of connections per level	2
Stripping length	18 mm ... 20 mm
Internal cylindrical gage	A7
	B7
Conductor cross section solid	2.5 mm ² ... 25 mm ²
Cross section AWG	14 ... 4
Conductor cross section flexible	4 mm ² ... 25 mm ²
Conductor cross section, flexible [AWG]	12 ... 4
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	2.5 mm ² ... 16 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm ² ... 16 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm ² ... 10 mm ²
Nominal current	76 A
Maximum load current	85 A (with 25 mm ² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	16 mm ²

Dimensions

Width	12.2 mm
Height	49.8 mm
Height NS 35/15	58.8 mm
Height NS 35/7,5	51.3 mm
Length	77.2 mm

Material specifications

Color	blue
Flammability rating according to UL 94	V0
Insulating material group	I

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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

Test voltage setpoint	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 16 mm ²	1.92 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

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	2.5 mm ² / 0.7 kg
	16 mm ² / 2.9 kg
	25 mm ² / 4.5 kg
Result	Test passed

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Environmental and real-life conditions

Aging

Temperature cycles	192
	192
	192
	192
	192
	192
Result	Test passed
	Test passed
	Test passed
	Test passed
	Test passed
	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	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
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 ... 105 °C (max. short-term operating temperature 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 (storage/transport)
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30 % ... 70 %

Standards and regulations

Connection in acc. with standard

IEC 60947-7-1

Mounting

Mounting type

NS 35/7,5

NS 35/15

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Drawings

Circuit diagram



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Approvals

 cULus Recognized Approval ID: E60425				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	600 V	75 A	10 - 4	-
Use group C				
	600 V	75 A	10 - 4	-
Use group F				
	1000 V	75 A	10 - 4	-

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Classifications

ECLASS

ECLASS-11.0	27141120
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ETIM

ETIM 8.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk