

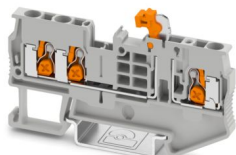
XT 2,5-TWIN-MT - Knife-disconnect terminal block



1462720

<https://www.phoenixcontact.com/gb/products/1462720>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Knife-disconnect terminal block, nom. voltage: 500 V, nominal current: 20 A, connection method: Push-X-connection, Rated cross section: 2.5 mm², cross section: 0.5 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

- The compact design and front connection enable wiring in a confined space

- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

Commercial data

Item number	1462720
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE2531
Product key	BE2531
GTIN	4063151853938
Weight per piece (including packing)	10.33 g
Weight per piece (excluding packing)	10.33 g
Customs tariff number	85369010
Country of origin	CN

XT 2,5-TWIN-MT - Knife-disconnect terminal block



1462720

<https://www.phoenixcontact.com/gb/products/1462720>

Technical data

Product properties

Product type	Disconnect terminal block
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

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	3
Nominal cross section	2.5 mm ²
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm ² ... 4 mm ²
Cross section AWG	20 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.75 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	18 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 2.5 mm ²
Nominal current	20 A
Maximum load current	20 A (with 4 mm ² conductor cross section, rigid)
Nominal voltage	500 V
Nominal cross section	2.5 mm ²

Dimensions

Width	5.2 mm
Height	73.7 mm
Depth	36.9 mm
Depth on NS 35/7,5	38.4 mm
Depth on NS 35/15	45.9 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0

XT 2,5-TWIN-MT - Knife-disconnect terminal block



1462720

<https://www.phoenixcontact.com/gb/products/1462720>

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
--------	-------------

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm ²	0.3 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
-----------------	-----

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

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	0.34 mm ² / 0.3 kg
	2.5 mm ² / 0.7 kg
	4 mm ² / 0.9 kg
Result	Test passed

XT 2,5-TWIN-MT - Knife-disconnect terminal block



1462720

<https://www.phoenixcontact.com/gb/products/1462720>

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):2022-06
Spectrum	Long 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

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

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

Standards and regulations

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

Mounting

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

XT 2,5-TWIN-MT - Knife-disconnect terminal block

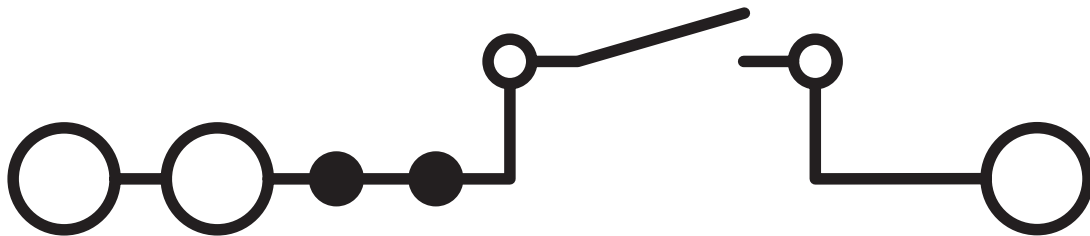


1462720

<https://www.phoenixcontact.com/gb/products/1462720>

Drawings

Circuit diagram



XT 2,5-TWIN-MT - Knife-disconnect terminal block



1462720

<https://www.phoenixcontact.com/gb/products/1462720>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1462720>

 CSA Approval ID: 2030668				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	20 A	20 - 12	-
Use group C				
	300 V	20 A	20 - 12	-
Use group D				
	600 V	5 A	20 - 12	-

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	20 A	20 - 12	-
Use group C				
	300 V	20 A	20 - 12	-
Use group F				
	500 V	20 A	20 - 12	-
Use group D				
	600 V	5 A	20 - 12	-

XT 2,5-TWIN-MT - Knife-disconnect terminal block



1462720

<https://www.phoenixcontact.com/gb/products/1462720>

Classifications

ECLASS

ECLASS-13.0	27250108
-------------	----------

ETIM

ETIM 9.0	EC000902
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

XT 2,5-TWIN-MT - Knife-disconnect terminal block



1462720

<https://www.phoenixcontact.com/gb/products/1462720>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

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