

3248100

<https://www.phoenixcontact.com/pc/products/3248100>

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.



Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 15, color: gray

Your advantages

- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Clear arrangement thanks to marking of all terminal points
- Tested for railway applications

Commercial data

Item number	3248100
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	BE2261
Catalog page	Page 45 (C-1-2019)
GTIN	4046356768719
Weight per piece (including packing)	2.956 g
Weight per piece (excluding packing)	2.913 g
Customs tariff number	85369010
Country of origin	PL

MPT 1,5/S - Mini feed-through terminal block



3248100

<https://www.phoenixcontact.com/pc/products/3248100>

Technical data

Product properties

Product type	Miniature terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	2
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	0.56 W

Connection data

Number of connections per level	2
Nominal cross section	1.5 mm ²

1 level

Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1 / B1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 1 mm ²
Nominal current	17.5 A
Maximum load current	17.5 A
Nominal voltage	500 V
Nominal cross section	1.5 mm ²

1 level Connection cross sections directly pluggable

Conductor cross section rigid	0.25 mm ² ... 1.5 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm ² ... 1 mm ²

Ex data

MPT 1,5/S - Mini feed-through terminal block



3248100

<https://www.phoenixcontact.com/pc/products/3248100>

Rated data (ATEX/IECEX)

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3248120 D-MPT 1,5/S
	1204504 SZF 0-0,4X2,5
	3022263 CLIPFIX 15
List of bridges	Plug-in bridge / FBS 2-3,5 / 3213014
	Plug-in bridge / FBS 3-3,5 / 3213027
	Plug-in bridge / FBS 4-3,5 / 3213030
	Plug-in bridge / FBS 5-3,5 / 3213043
	Plug-in bridge / FBS 10-3,5 / 3213056
	Plug-in bridge / FBS 20-3,5 / 3213069
Bridge data	14.5 A / 1.5 mm ²
Ex temperature increase	40 K (14.5 A / 1.5 mm ²)
Rated voltage	352 V
for bridging with bridge	352 V
- At bridging between non-adjacent terminal blocks	220 V
- At cut-to-length bridging	166 V
- At cut-to-length bridging with cover	352 V
Rated insulation voltage	320 V
output	(Permanent)

Ex level General

Rated current	14.5 A
Maximum load current	14.5 A
Contact resistance	1.6 mΩ

Ex connection data General

Nominal cross section	1.5 mm ²
Rated cross section AWG	16
Connection capacity rigid	0.14 mm ² ... 1.5 mm ²
Connection capacity AWG	26 ... 16
Connection capacity flexible	0.14 mm ² ... 1.5 mm ²
Connection capacity AWG	26 ... 16

Dimensions

Width	3.5 mm
End cover width	2.2 mm
Height	33.55 mm
Depth on NS 15	28.1 mm

Material specifications

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

MPT 1,5/S - Mini feed-through terminal block



3248100

<https://www.phoenixcontact.com/pc/products/3248100>

Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 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 15
Test force setpoint	1 N
Result	Test passed

Test for conductor damage and slackening

Conductor cross section/weight	0.14 mm ² / 0.2 kg
	1.5 mm ² / 0.4 kg

MPT 1,5/S - Mini feed-through terminal block



3248100

<https://www.phoenixcontact.com/pc/products/3248100>

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):2008-03
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):2008-03
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, no longer than 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 15
---------------	-------

MPT 1,5/S - Mini feed-through terminal block

3248100

<https://www.phoenixcontact.com/pc/products/3248100>



Drawings

Circuit diagram



MPT 1,5/S - Mini feed-through terminal block



3248100

<https://www.phoenixcontact.com/pc/products/3248100>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/3248100>

DNV

Approval ID: TAE00003J4



CSA

Approval ID: 2030668

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	15 A	26 - 14	-
Use group C				
	300 V	15 A	26 - 14	-
Use group D				
	600 V	5 A	26 - 14	-



IECEE CB Scheme

Approval ID: DE1-62773

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	17.5 A	-	- 1.5



EAC

Approval ID: RU C-DE.BL08.B.00644



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	15 A	26 - 14	-
Use group C				
	300 V	15 A	26 - 14	-
Use group D				
	600 V	5 A	26 - 14	-



LR

Approval ID: LR2004293TA



BV

Approval ID: 38194/B0 BV

MPT 1,5/S - Mini feed-through terminal block



3248100

<https://www.phoenixcontact.com/pc/products/3248100>



VDE Zeichengenehmigung

Approval ID: 40040312

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	17.5 A	-	0.14 - 1.5



IECEx

Approval ID: IECEx SEV14.0010U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	352 V	14.5 A	-	0.14 - 1.5



ATEX

Approval ID: SEV14ATEX0140U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	352 V	14.5 A	-	0.14 - 1.5



CCC

Approval ID: 2020322313000629



UKCA-EX

Approval ID: CML 22UKEX1228U

MPT 1,5/S - Mini feed-through terminal block



3248100

<https://www.phoenixcontact.com/pc/products/3248100>

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
----------	----------

UNSPSC

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

MPT 1,5/S - Mini feed-through terminal block



3248100
<https://www.phoenixcontact.com/pc/products/3248100>

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%
EF3.0 Climate Change	
CO2e kg	0.024 kg CO2e

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com