

MSB 2,5-FE-RZ - Mini feed-through terminal block



3244165

<https://www.phoenixcontact.com/sg/products/3244165>

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: 800 V, nominal current: 24 A, number of connections: 2, connection method: Spring-cage connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², mounting type: on mounting panel, color: black/yellow

Your advantages

- Can be freely combined with MS(D)B 2,5-M middle terminal blocks
- Space saving, thanks to the compact design and mounting option directly on the mounting panel
- Clear arrangement thanks to marking of all terminal points

Commercial data

Item number	3244165
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	BE2165
GTIN	4046356855853
Weight per piece (including packing)	4 g
Weight per piece (excluding packing)	4 g
Customs tariff number	85369010
Country of origin	CN

MSB 2,5-FE-RZ - Mini feed-through terminal block



3244165

<https://www.phoenixcontact.com/sg/products/3244165>

Technical data

Product properties

Product type	Miniature terminal block
Number of connections	2
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm ²

1 level

Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.08 mm ² ... 4 mm ²
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	28 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	24 A
Maximum load current	30 A (with 4 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	2.5 mm ²
Connection in acc. with standard	IEC/EN 60079-7
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross section, flexible [AWG]	28 ... 14 (converted acc. to IEC)

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔ II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3024177 D-MZB 1,5

MSB 2,5-FE-RZ - Mini feed-through terminal block



3244165

<https://www.phoenixcontact.com/sg/products/3244165>

	1204517 SZF 1-0,6X3,5
Ex temperature increase	40 K (21.3 A / 2.5 mm²)
Rated insulation voltage when mounting on DIN rails	630 V
Rated insulation voltage when directly mounted on mounting surface	500 V
output	(Permanent)

Ex level General

Rated voltage when mounting on DIN rails	690 V
Rated voltage during direct mounting on mounting surface	550 V
Rated current	21 A
Maximum load current	26 A
Contact resistance	0.87 mΩ

Ex connection data General

Nominal cross section	2.5 mm²
Rated cross section AWG	14
Connection capacity rigid	0.08 mm² ... 4 mm²
Connection capacity AWG	28 ... 12
Connection capacity flexible	0.08 mm² ... 2.5 mm²
Connection capacity AWG	28 ... 14

Dimensions

Width	5.2 mm
End cover width	4 mm
Height	32 mm
Depth	22 mm
Drill hole spacing	5.2 mm
Hole diameter	3.5 mm
Plate thickness	0.6 mm ... 1.5 mm

Material specifications

Color	multicolored
	black (RAL 9005)
	yellow (RAL 1018)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °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

MSB 2,5-FE-RZ - Mini feed-through terminal block



3244165

<https://www.phoenixcontact.com/sg/products/3244165>

Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 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

Mechanical properties

Mechanical data

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

Technical data

Drill hole spacing	5.2 mm
--------------------	--------

Environmental and real-life conditions

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
	IEC/EN 60079-7

Mounting

Mounting type	on mounting panel
---------------	-------------------

MSB 2,5-FE-RZ - Mini feed-through terminal block

3244165

<https://www.phoenixcontact.com/sg/products/3244165>



Drawings

Circuit diagram



MSB 2,5-FE-RZ - Mini feed-through terminal block



3244165

<https://www.phoenixcontact.com/sg/products/3244165>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3244165>



EAC Ex

Approval ID: KZ 7500525010101950



IECEx

Approval ID: IECExPTB08.0048U



ATEX

Approval ID: PTB08ATEX1075U



CCC

Approval ID: 2020322313000629



UKCA-EX

Approval ID: CSAE 22UKEX1245U

MSB 2,5-FE-RZ - Mini feed-through terminal block



3244165

<https://www.phoenixcontact.com/sg/products/3244165>

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

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

UNSPSC

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

MSB 2,5-FE-RZ - Mini feed-through terminal block



3244165

<https://www.phoenixcontact.com/sg/products/3244165>

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 SEA Pte. Ltd.
105 Eunos Avenue 3, #04-00
Singapore 409836
+65 6228 4900
marketing@phoenixcontact.com.sg