

MSB 2,5-NS 35-PE - Mini ground terminal block



3244148

<https://www.phoenixcontact.com/sg/products/3244148>

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 ground terminal block, 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: NS 35/7,5, NS 35/15, color: green-yellow

Commercial data

Item number	3244148
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	BE2161
Catalog page	Page 223 (C-1-2019)
GTIN	4046356145473
Weight per piece (including packing)	6.231 g
Weight per piece (excluding packing)	5.63 g
Customs tariff number	85369010
Country of origin	CN

MSB 2,5-NS 35-PE - Mini ground terminal block



3244148

<https://www.phoenixcontact.com/sg/products/3244148>

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

Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-2
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
Nominal cross section	2.5 mm ²
Connection in acc. with standard	IEC/EN 60079-7

Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3024193 D-MZB 1,5-NS35
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
output	(Permanent)

Ex connection data General

Nominal cross section	2.5 mm ²
-----------------------	---------------------

MSB 2,5-NS 35-PE - Mini ground terminal block



3244148

<https://www.phoenixcontact.com/sg/products/3244148>

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	42.7 mm
Depth	22 mm
Depth on NS 35/7,5	32 mm
Depth on NS 35/15	39.5 mm

Material specifications

Color	green-yellow
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))	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

Mechanical properties

Mechanical data

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

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02g²/Hz
Acceleration	0.8g
Test duration per axis	5 h

MSB 2,5-NS 35-PE - Mini ground terminal block



3244148

<https://www.phoenixcontact.com/sg/products/3244148>

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	5g
Shock duration	30 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
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-2
	IEC/EN 60079-7

Mounting

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

MSB 2,5-NS 35-PE - Mini ground terminal block

3244148

<https://www.phoenixcontact.com/sg/products/3244148>



Drawings

Circuit diagram



MSB 2,5-NS 35-PE - Mini ground terminal block



3244148

<https://www.phoenixcontact.com/sg/products/3244148>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3244148>

CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	28 - 12	-

CB IECEE CB Scheme Approval ID: DE1-63050				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	-	0.2 - 2.5

cULus cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	-	-	28 - 12	-
Use group C				
	-	-	28 - 12	-
Use group D				
	-	-	28 - 12	-

VDE VDE approval of drawings Approval ID: 40037304				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	-	0.2 - 2.5

EAC Ex Approval ID: KZ 7500525010101950				
--	--	--	--	--

IECEx Approval ID: IECExPTB08.0048U				
--	--	--	--	--

ATEX Approval ID: PTB08ATEX1075U				
-------------------------------------	--	--	--	--

CCC Approval ID: 2020322313000629				
--------------------------------------	--	--	--	--

MSB 2,5-NS 35-PE - Mini ground terminal block

3244148

<https://www.phoenixcontact.com/sg/products/3244148>



UKCA-EX

Approval ID: CSAE 22UKEX1245U

MSB 2,5-NS 35-PE - Mini ground terminal block



3244148

<https://www.phoenixcontact.com/sg/products/3244148>

Classifications

ECLASS

ECLASS-11.0	27141141
ECLASS-13.0	27250103

ETIM

ETIM 9.0	EC000901
----------	----------

UNSPSC

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

MSB 2,5-NS 35-PE - Mini ground terminal block



3244148

<https://www.phoenixcontact.com/sg/products/3244148>

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