

MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

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.



Component terminal block, The maximum current is determined by the diode. Installed: diode BY133G, reverse voltage: 1300 V, maximum continuous current: 0.5 A., with integrated diode, nom. voltage: 500 V, nominal current: 0.5 A, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting: NS 15, NS 35/7,5, NS 35/15, color: gray

Commercial data

Item number	1066348
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE1264
Product key	BE1264
GTIN	4055626731353
Weight per piece (including packing)	13.322 g
Weight per piece (excluding packing)	13.22 g
Customs tariff number	85369010
Country of origin	PL

MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

Technical data

Notes

General	The maximum current is determined by the diode. Installed: diode BY133G, reverse voltage: 1300 V, maximum continuous current: 0.5 A.
---------	--

Product properties

Product type	Miniature terminal block
Number of positions	2
Number of connections	4
Number of rows	2
Potentials	2

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Maximum power dissipation for nominal condition	0.77 W
---	--------

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm ²
Screw thread	M3
Stripping length	7 mm ... 9 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	4 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	1.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1.5 mm ²
2 conductors with the same cross-section AWG rigid	24 ... 16 (converted acc. to IEC)
2 conductors with same cross section, flexible	0.2 mm ² ... 1.5 mm ²
2 conductors with the same cross-section AWG flexible	24 ... 16 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.2 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Nominal current	0.5 A

MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

Maximum load current	0.5 A
Nominal voltage	500 V
Nominal cross section	2.5 mm ²
Component type	Diode BY133G
Reverse voltage	1300 V

Dimensions

Width	5.2 mm
Height	63.5 mm
Depth	50.8 mm
Depth on NS 15	50.5 mm
Depth on NS 35/7,5	52.3 mm
Depth on NS 35/15	59.8 mm

Material specifications

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

Test voltage setpoint	7.3 kV
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

Attachment on the carrier

MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

Result	Test passed
Test for conductor damage and slackening	
Rotation speed	9 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm ² / 0.2 kg
	2.5 mm ² / 0.7 kg
	4 mm ² / 0.9 kg
Result	Test passed

Environmental and real-life conditions

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 (m/s ²) ² /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):2022-06
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, 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 15
	NS 35/7,5

MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

	NS 35/15
--	----------

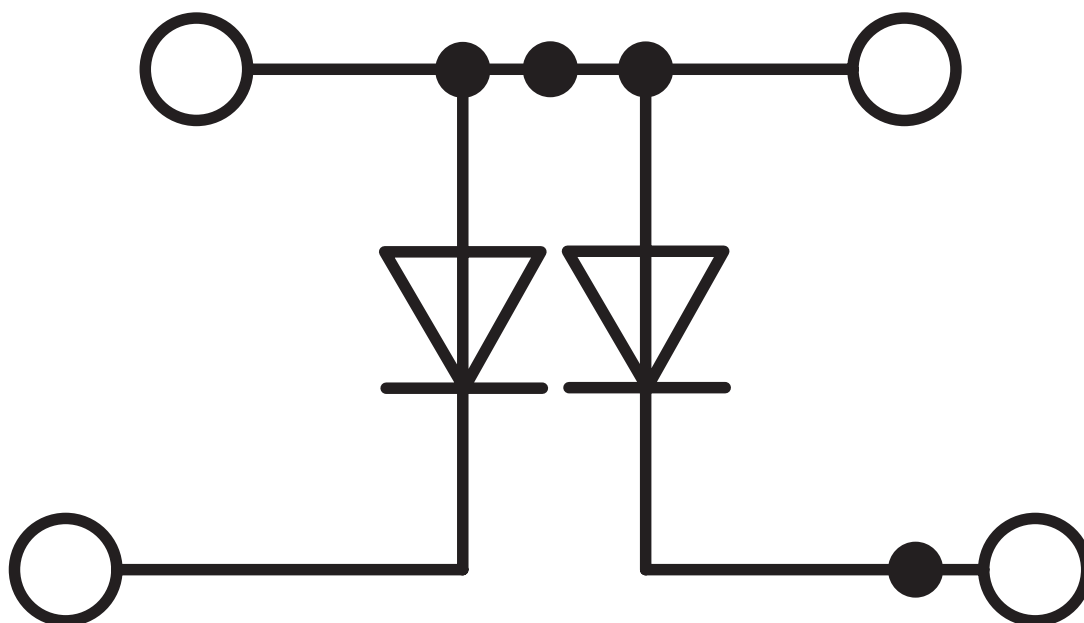
MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block

1066348

<https://www.phoenixcontact.com/gb/products/1066348>

Drawings

Circuit diagram



MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1066348>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	150 V	0.5 A	24 - 12	-
Use group C	150 V	0.5 A	24 - 12	-
Use group D	300 V	0.5 A	24 - 12	-

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	150 V	0.5 A	24 - 12	-
Use group C	150 V	0.5 A	24 - 12	-
Use group F	500 V	0.5 A	24 - 12	-
Use group D	300 V	0.5 A	24 - 12	-

MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

Classifications

ECLASS

ECLASS-13.0	27250114
-------------	----------

ETIM

ETIM 9.0	EC000903
----------	----------

MUTTB 2,5-2DIO/O-UL/O-UR - Component terminal block



1066348

<https://www.phoenixcontact.com/gb/products/1066348>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	c84e843d-834e-48e9-9f9e-27080085f4be

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