

# MBKKB 2,5-DIO/U-O - Mini feed-through terminal block



2800570

<https://www.phoenixcontact.com/us/products/2800570>

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, The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A., with integrated diode, nom. voltage: 500 V, nominal current: 0.5 A, 1st and 2nd level, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting: NS 15, NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Thanks to the different versions of double-level diode terminal blocks, a variety of switching tasks can be performed
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Clear arrangement thanks to marking of all terminal points
- Easy potential distribution thanks to standardized plug-in bridges

## Commercial data

Item number	2800570
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BE12
Product key	BE1264
Catalog page	Page 561 (C-1-2019)
GTIN	4017918074265
Weight per piece (including packing)	11.72 g
Weight per piece (excluding packing)	11.72 g
Customs tariff number	85369010
Country of origin	PL

## Technical data

### Notes

General	The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A.
---------	--

### Product properties

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

### 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	2
Nominal cross section	2.5 mm <sup>2</sup>

#### 1st and 2nd level

Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	7 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross-section with insertion bridge, rigid	2.5 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	2.5 mm <sup>2</sup>
2 conductors with same cross section, solid	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Nominal current	0.5 A

# MBKKB 2,5-DIO/U-O - Mini feed-through terminal block



2800570

<https://www.phoenixcontact.com/us/products/2800570>

Maximum load current	0.5 A
Nominal voltage	500 V (Data is based on the dielectric strength of adjacent terminal blocks or of the DINg rail.)
Nominal cross section	2.5 mm <sup>2</sup>

## Dimensions

Width	5.2 mm
End cover width	2.5 mm
Height	62 mm
Depth on NS 15	47.5 mm
Depth on NS 35/7,5	48 mm
Depth on NS 35/15	55.5 mm

## Material specifications

Color	gray
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### 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 60947-7-1
----------------------------------	---------------

## Mounting

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

# MBKKB 2,5-DIO/U-O - Mini feed-through terminal block



2800570

<https://www.phoenixcontact.com/us/products/2800570>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2800570>



**EAC**

Approval ID: RU C-DE.BL08.B.00534

# MBKKB 2,5-DIO/U-O - Mini feed-through terminal block



2800570

<https://www.phoenixcontact.com/us/products/2800570>

## Classifications

### ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250114

### ETIM

ETIM 8.0	EC000897
----------	----------

### UNSPSC

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

# MBKKB 2,5-DIO/U-O - Mini feed-through terminal block



2800570

<https://www.phoenixcontact.com/us/products/2800570>

## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)