

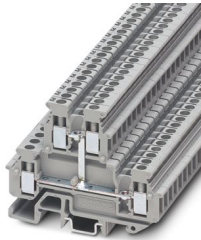
# MBKKB 2,5-PV - Mini feed-through terminal block



2800583

<https://www.phoenixcontact.com/us/products/2800583>

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, with equipotential bond, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw connection, 1st and 2nd level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 15, NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Fixed bridges and test sockets can be used on both levels
- Clear arrangement thanks to marking of all terminal points
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Easy potential distribution thanks to standardized plug-in bridges

## Commercial data

Item number	2800583
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1264
GTIN	4017918074272
Weight per piece (including packing)	11.92 g
Weight per piece (excluding packing)	11.88 g
Customs tariff number	85369010
Country of origin	PL

# MBKKB 2,5-PV - Mini feed-through terminal block



2800583

<https://www.phoenixcontact.com/us/products/2800583>

## Technical data

### Product properties

Product type	Miniature terminal block
Number of connections	4
Number of rows	2
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Number of connections per level	2
Nominal cross section	2.5 mm <sup>2</sup>

### 1st and 2nd level

Connection method	Screw connection
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> ... 1.5 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, rigid	0.2 mm <sup>2</sup> ... 1.5 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 mm <sup>2</sup>
Nominal cross section	2.5 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	24 A (in case of a 4 mm <sup>2</sup> conductor cross-section, the maximum load current must not be exceeded by the total current of all

# MBKKB 2,5-PV - Mini feed-through terminal block



2800583

<https://www.phoenixcontact.com/us/products/2800583>

	connected conductors.)
Nominal voltage	500 V

## 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 (RAL 7042)
Flammability rating according to UL 94	V2
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)	125 °C

## Electrical tests

### Surge voltage test

Result	Test passed
--------	-------------

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Short-time withstand current 2.5 mm <sup>2</sup>	0.3 kA
Short-time withstand current 4 mm <sup>2</sup>	0.48 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

# MBKKB 2,5-PV - Mini feed-through terminal block



2800583

<https://www.phoenixcontact.com/us/products/2800583>

DIN rail/fixing support	NS 35/NS 15
Result	Test passed

## Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm <sup>2</sup> / 0.2 kg
	2.5 mm <sup>2</sup> / 0.7 kg
	4 mm <sup>2</sup> / 0.9 kg
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
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
	NS 35/15

# MBKKB 2,5-PV - Mini feed-through terminal block

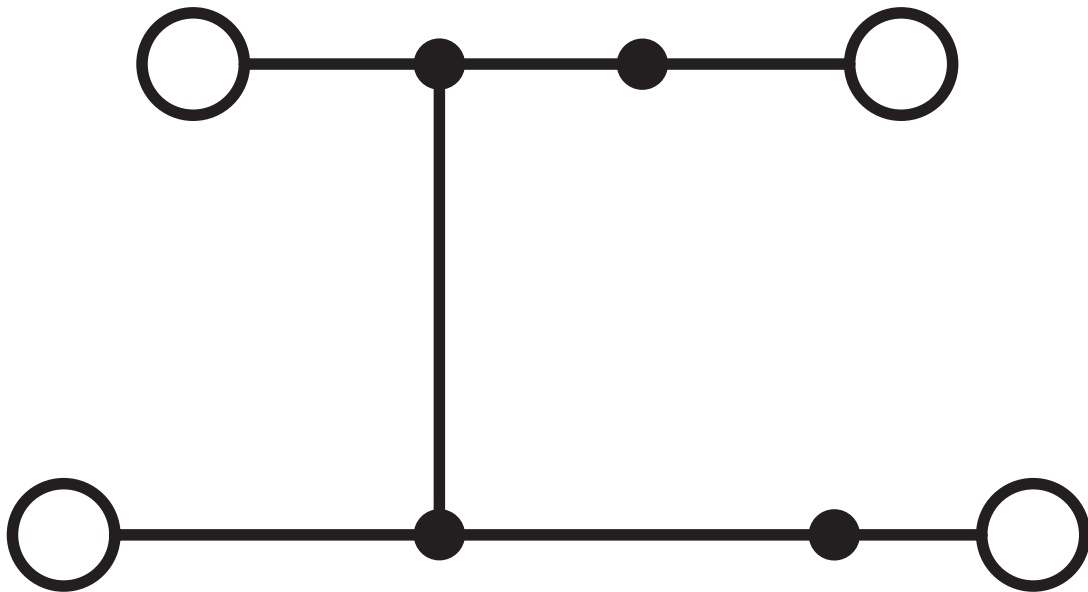


2800583

<https://www.phoenixcontact.com/us/products/2800583>

## Drawings

Circuit diagram

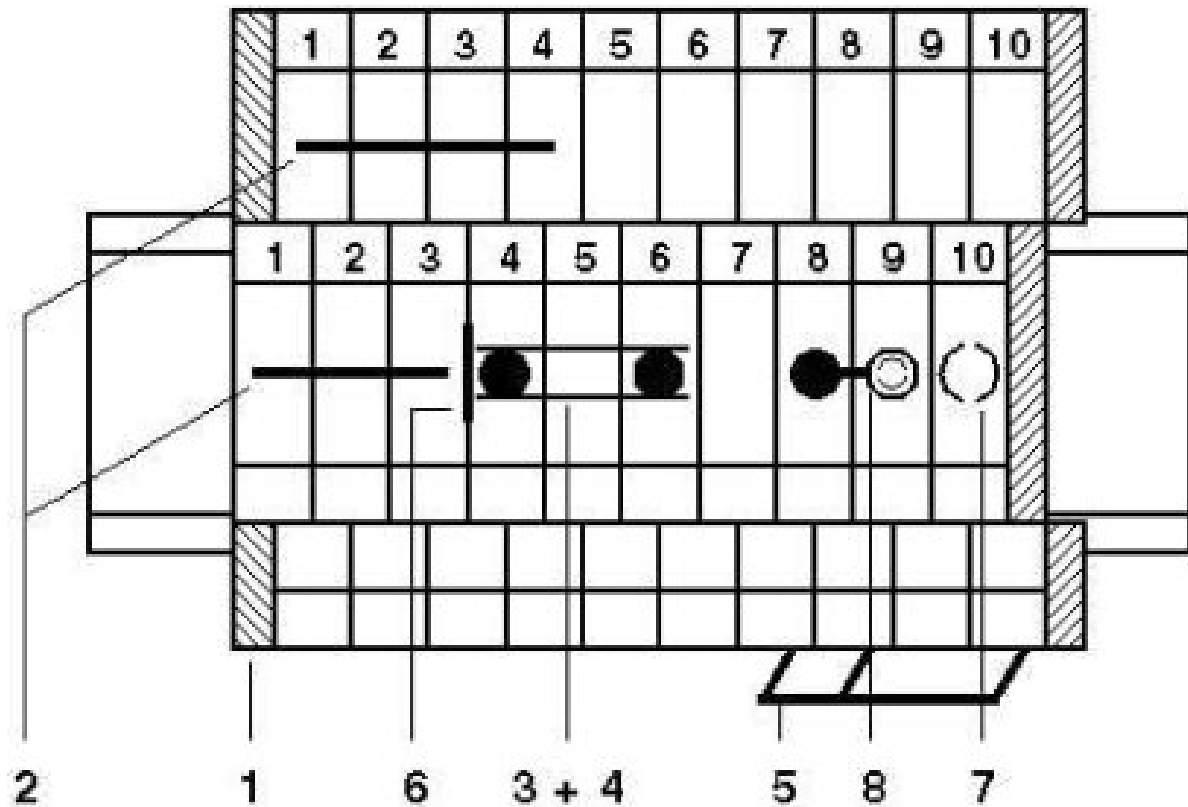


# MBKKB 2,5-PV - Mini feed-through terminal block

2800583

<https://www.phoenixcontact.com/us/products/2800583>

Circuit diagram



- 1 = Cover
- 2 = Spacer plate
- 3 = Fixed bridge
- 4 = Insertion bridge
- 5 = Insulation plate
- 6 = Test sockets, for test pick-off with MPS test plug or RPS reducing plug
- 7 = Test sockets, insulated, can only be used for FBRNI

# MBKKB 2,5-PV - Mini feed-through terminal block



2800583

<https://www.phoenixcontact.com/us/products/2800583>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2800583>



**EAC**

Approval ID: KZ7500651131219505



**cULus Recognized**

Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B				
	300 V	20 A	30 - 12	-
C				
	300 V	20 A	30 - 12	-

# MBKKB 2,5-PV - Mini feed-through terminal block



2800583

<https://www.phoenixcontact.com/us/products/2800583>

## Classifications

### ECLASS

ECLASS-13.0	27250102
ECLASS-15.0	27250102

### ETIM

ETIM 10.0	EC000897
-----------	----------

### UNSPSC

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

# MBKKB 2,5-PV - Mini feed-through terminal block



2800583

<https://www.phoenixcontact.com/us/products/2800583>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### 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	a6e6a7dc-857e-43d1-ac12-be2049ca1040

### EF3.1 Climate Change

CO2e kg	0.085 kg CO2e
---------	---------------

Phoenix Contact 2026 © - 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)