

# MBK 5/E-TG - Disconnect terminal block

1415089

<https://www.phoenixcontact.com/us/products/1415089>



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.



Disconnect terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 16 A, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting: NS 15, color: gray

## Your advantages

- Design width of just 6.2 mm

## Commercial data

Item number	1415089
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1261
Catalog page	Page 506 (C-1-2019)
GTIN	4017918021375
Weight per piece (including packing)	7.774 g
Weight per piece (excluding packing)	7.314 g
Customs tariff number	85369010
Country of origin	DE

# MBK 5/E-TG - Disconnect terminal block



1415089

<https://www.phoenixcontact.com/us/products/1415089>

## Technical data

### Notes

General	Current and voltage are determined by the plug used.
---------	--

### Product properties

Product type	Disconnect terminal block
Number of connections	2
Number of rows	1
Potentials	1

### Insulation characteristics

Overshoot category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

### Connection data

Number of connections per level	2
Nominal cross section	4 mm <sup>2</sup>

### Level 1 above 1 below 1

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	9 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> ... 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 ... 12 (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	1.5 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	1.5 mm <sup>2</sup>
2 conductors with same cross section, solid	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> ... 1.5 mm <sup>2</sup>
Nominal current	16 A
Maximum load current	16 A (with 4 mm <sup>2</sup> conductor cross section)

# MBK 5/E-TG - Disconnect terminal block



1415089

<https://www.phoenixcontact.com/us/products/1415089>

Nominal voltage	500 V
Nominal cross section	4 mm <sup>2</sup>

## Dimensions

Width	6.2 mm
End cover width	1 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
---------------	-------

# MBK 5/E-TG - Disconnect terminal block

1415089

<https://www.phoenixcontact.com/us/products/1415089>



## Drawings

Circuit diagram



# MBK 5/E-TG - Disconnect terminal block



1415089

<https://www.phoenixcontact.com/us/products/1415089>

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1415089>

	CSA	Approval ID: 13631	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
			300 V	15 A	28 - 12	-

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

	cULus Recognized	Approval ID: E60425	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B			300 V	20 A	28 - 12	-
Use group C			300 V	20 A	28 - 12	-
Use group F			500 V	20 A	28 - 12	-
Use group D			600 V	5 A	28 - 12	-

# MBK 5/E-TG - Disconnect terminal block



1415089

<https://www.phoenixcontact.com/us/products/1415089>

## Classifications

### ECLASS

ECLASS-11.0	27141126
ECLASS-12.0	27141126
ECLASS-13.0	27250108

### ETIM

ETIM 9.0	EC000902
----------	----------

### UNSPSC

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

# MBK 5/E-TG - Disconnect terminal block



1415089

<https://www.phoenixcontact.com/us/products/1415089>

## 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 2024 © - 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)