

MBK 5/E-TG - Disconnect terminal block



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

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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 mm², cross section: 0.2 mm² - 4 mm², mounting: NS 15, color: gray

Your advantages

- Design width of just 6.2 mm

Commercial Data

Item number	1415089
Packing unit	1 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

Technical Data

Notes

General	Current and voltage are determined by the plug used.
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Product properties

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

Insulation characteristics

Overvoltage 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 ²

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 ² ... 4 mm ²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	24 ... 12 (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
Cross-section with insertion bridge, rigid	1.5 mm ²
Cross-section with insertion bridge, flexible	1.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 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	16 A
Maximum load current	16 A (with 4 mm ² conductor cross section)

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Nominal voltage	500 V
Nominal cross section	4 mm²

Dimensions

Width	6.2 mm
End cover width	1 mm
Height NS 15	36 mm
Height (inch)	1.417 "
Length	28 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
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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
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Mounting

Mounting type	NS 15
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Drawings

Circuit diagram



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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				
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 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	-

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC000902
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories



Note: Applying some accessories below might limit this product.

EB 3- 6 - Insertion bridge

0201142

<https://www.phoenixcontact.com/us/products/0201142>

Insertion bridge, pitch: 6.2 mm, number of positions: 3, color: gray



Max. current carrying capacity: 16 A

EB 2- 6 - Insertion bridge

0201155

<https://www.phoenixcontact.com/us/products/0201155>

Insertion bridge, pitch: 6.2 mm, number of positions: 2, color: gray



Max. current carrying capacity: 16 A

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EB 10- 6 - Insertion bridge

0201139

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Insertion bridge, pitch: 6.2 mm, number of positions: 10, color: gray

 Max. current carrying capacity: 16 A

D-MBK 5/E-T - End cover

1413706

<https://www.phoenixcontact.com/us/products/1413706>



End cover, length: 28 mm, width: 1 mm, height: 30.3 mm, color: gray

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SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/us/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

BN-ZB 6,2/WH CUS - Marker pin Zack strip

0824276

<https://www.phoenixcontact.com/us/products/0824276>



Marker pin Zack strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: plug in, for terminal block width: 6.2 mm, lettering field size: 4 x 4 mm

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ST-K 4 - Isolating plugs

5025462

<https://www.phoenixcontact.com/us/products/5025462>



Isolating plug, silver-plated, can be used in UK...-TG, UKK...-TG, UDK...-TG, MBK...-TG, DIK...-TG, DOK...-TG, and ZFK...-TG disconnect terminal blocks, color: gray

ST-BE - Component connector

2802316

<https://www.phoenixcontact.com/us/products/2802316>



Component connector, to connect 2-pos. components to the basic terminal block, to be secured with screw-type clamping units, 19 mm high, max. 16 A

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ST-BE-LA 24 - Component connector

2802374

<https://www.phoenixcontact.com/us/products/2802374>



Component plug, with light indicator, to connect 2-pos. components into the basic terminal block, height: 19 mm, color: Gray, voltage light indicator: 24 V DC

ST-BE-LA230 - Component connector

2802387

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Component plug, with light indicator, to connect 2-pos. components into the basic terminal block, height: 19 mm, color: gray, voltage light indicator: 230 V AC/DC

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ST-1N4007 - Component connector

2802329

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Component plug, with universal diode, to connect 2-pos. components into the basic terminal block, height: 19 mm, color: Gray

ST-B250C1500 - Component connector

2802345

<https://www.phoenixcontact.com/us/products/2802345>



Component plug, with bridge rectifier B 250 C 1500, for 4-pos. components, reverse voltage: 600 V, nominal voltage: 250 V, nominal current: 1.5 A, two basic terminal blocks are required per plug, height: 19 mm, color: gray

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ST-SI-UK 4 - Fuse plug

0921011

<https://www.phoenixcontact.com/us/products/0921011>



Fuse plug, nominal current: 250 V, nominal current: 6.3 A, connection method: Plug-in connection, length: 33.1 mm, width: 6.1 mm, height: 45.7 mm, color: black

ST-SILED 12-UK 4 - Fuse plug

0921024

<https://www.phoenixcontact.com/us/products/0921024>



Fuse plug, nominal current: 12 V, nominal current: 6.3 A, connection method: Plug-in connection, length: 33.1 mm, width: 6.1 mm, height: 45.7 mm, color: black

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ST-SILED 24-UK 4 - Fuse plug

0921037

<https://www.phoenixcontact.com/us/products/0921037>



Fuse plug, nominal current: 24 V, nominal current: 6.3 A, connection method: Plug-in connection, length: 33.1 mm, width: 6.1 mm, height: 45.7 mm, color: black

ST-SILED 60-UK 4 - Fuse plug

0921040

<https://www.phoenixcontact.com/us/products/0921040>



Fuse plug, nominal current: 60 V, nominal current: 6.3 A, connection method: Plug-in connection, length: 33.1 mm, width: 6.1 mm, height: 45.7 mm, color: black

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ST-SILA250-UK 4 - Fuse plug

0921053

<https://www.phoenixcontact.com/us/products/0921053>



Fuse plug, nominal current: 250 V, nominal current: 6.3 A, connection method: Plug-in connection, length: 33.1 mm, width: 6.1 mm, height: 45.7 mm, color: black

ST-BE-VP - Component connector

2802332

<https://www.phoenixcontact.com/us/products/2802332>



Component plug, for 4-pos. components, two basic terminal blocks required per plug, 19 mm high

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NS 15 UNPERF 2000MM VPE 10 - DIN rail, unperforated

1401695

<https://www.phoenixcontact.com/us/products/1401695>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 10 (20 m)

NS 15 PERF 2000MM VPE 10 - DIN rail perforated

1401682

<https://www.phoenixcontact.com/us/products/1401682>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 10 (20 m)

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NS 15 AL PERF 2000MM VPE 10 - DIN rail perforated

1401763

<https://www.phoenixcontact.com/us/products/1401763>



DIN rail perforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 10 (20 m)

NS 15 WH PERF 2000MM-VPE 10 - DIN rail perforated

1204096

<https://www.phoenixcontact.com/us/products/1204096>



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

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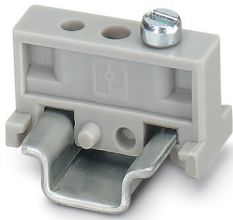
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E/MBK - End clamp

1401637

<https://www.phoenixcontact.com/us/products/1401637>



End clamp, width: 6.2 mm, color: gray

E/MK - End clamp

1421633

<https://www.phoenixcontact.com/us/products/1421633>



End clamp, width: 6.2 mm, color: gray

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E/MK 1 - End clamp

1421659

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End clamp width: 6 mm, color: gray



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