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 mm^2, cross section: 0.2 mm^2 - 4 mm^2, 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

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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

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 mm²

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 mm² ... 4 mm²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² ... 4 mm²
Conductor cross section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² ... 2.5 mm²
Cross-section with insertion bridge, rigid	1.5 mm²
Cross-section with insertion bridge, flexible	1.5 mm²
2 conductors with same cross section, solid	0.2 mm² ... 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1.5 mm²
Nominal current	16 A
Maximum load current	16 A (with 4 mm² 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

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

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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

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	-

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000902

UNSPSC

UNSPSC 21.0	39121400

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%

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

https://www.phoenixcontact.com/us/products/0201139

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, 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

https://www.phoenixcontact.com/us/products/2802387

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

https://www.phoenixcontact.com/us/products/2802329

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, nom. voltage: 250 V, nominal current: 6.3 A, connection method: Plug-in connection, depth: 45.7 mm, width: 6.1 mm, height: 33.1 mm, color: black

ST-SILED 12-UK 4 - Fuse plug

0921024

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

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

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ST-SILED 24-UK 4 - Fuse plug

0921037

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

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

ST-SILED 60-UK 4 - Fuse plug

0921040

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

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

MBK 5/E-TG - Disconnect terminal block

1415089

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

ST-SILA250-UK 4 - Fuse plug

0921053

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

Fuse plug, nom. voltage: 250 V, nominal current: 6.3 A, connection method: Plug-in connection, depth: 45.7 mm, width: 6.1 mm, height: 33.1 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, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 15 PERF 2000MM VPE 10 - DIN rail perforated

1401682

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

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

MBK 5/E-TG - Disconnect terminal block

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

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

1204096

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

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

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E/MBK - End bracket

1401637

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

End clamp, width: 6.2 mm, color: gray

E/MK - End bracket

1421633

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

End clamp, width: 6.2 mm, color: gray

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E/MK 1 - End bracket

1421659

https://www.phoenixcontact.com/us/products/1421659

End clamp width: 6 mm, color: gray
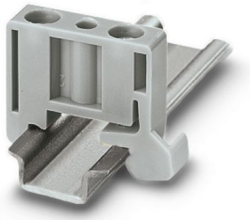
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