

MBK 5/E-FS - Mini feed-through terminal block



1418073

<https://www.phoenixcontact.com/us/products/1418073>

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Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 16 A, 1st level connection left, connection method: Screw/plug-in connection, Rated cross section: 4 mm², cross section: 0.2 mm² - 4 mm², mounting: NS 15, color: gray

Your advantages

- This terminal block has a proven screw connection on the outside of the control cabinet
- 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	1418073
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	BE05
Product key	BE511X
Catalog page	Page 521 (CL1-2011)
GTIN	4017918021535
Weight per piece (including packing)	5.49 g
Weight per piece (excluding packing)	5.49 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Miniature 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

1st level connection left

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	8 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 ... 4 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Cross-section with insertion bridge, rigid	2.5 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 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)
Nominal voltage	500 V
Nominal cross section	4 mm ²

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Dimensions

Width	6.2 mm
End cover width	1 mm

Material specifications

Color	gray
Flammability rating according to UL 94	HB
Insulating material group	I
Insulating material	PA-F
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

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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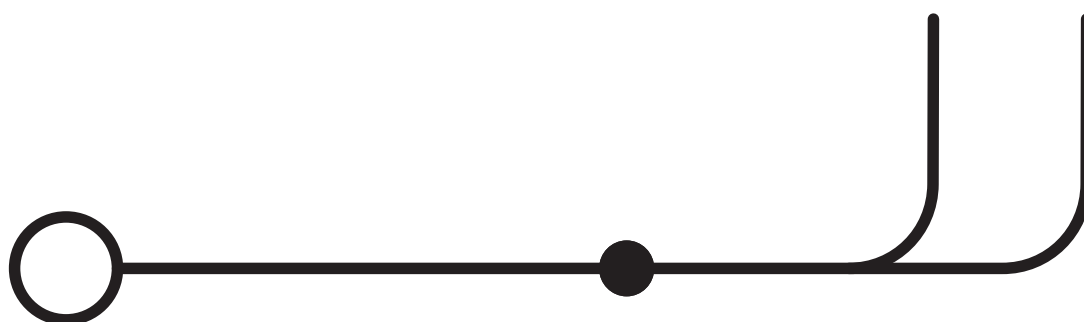
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Drawings

Circuit diagram

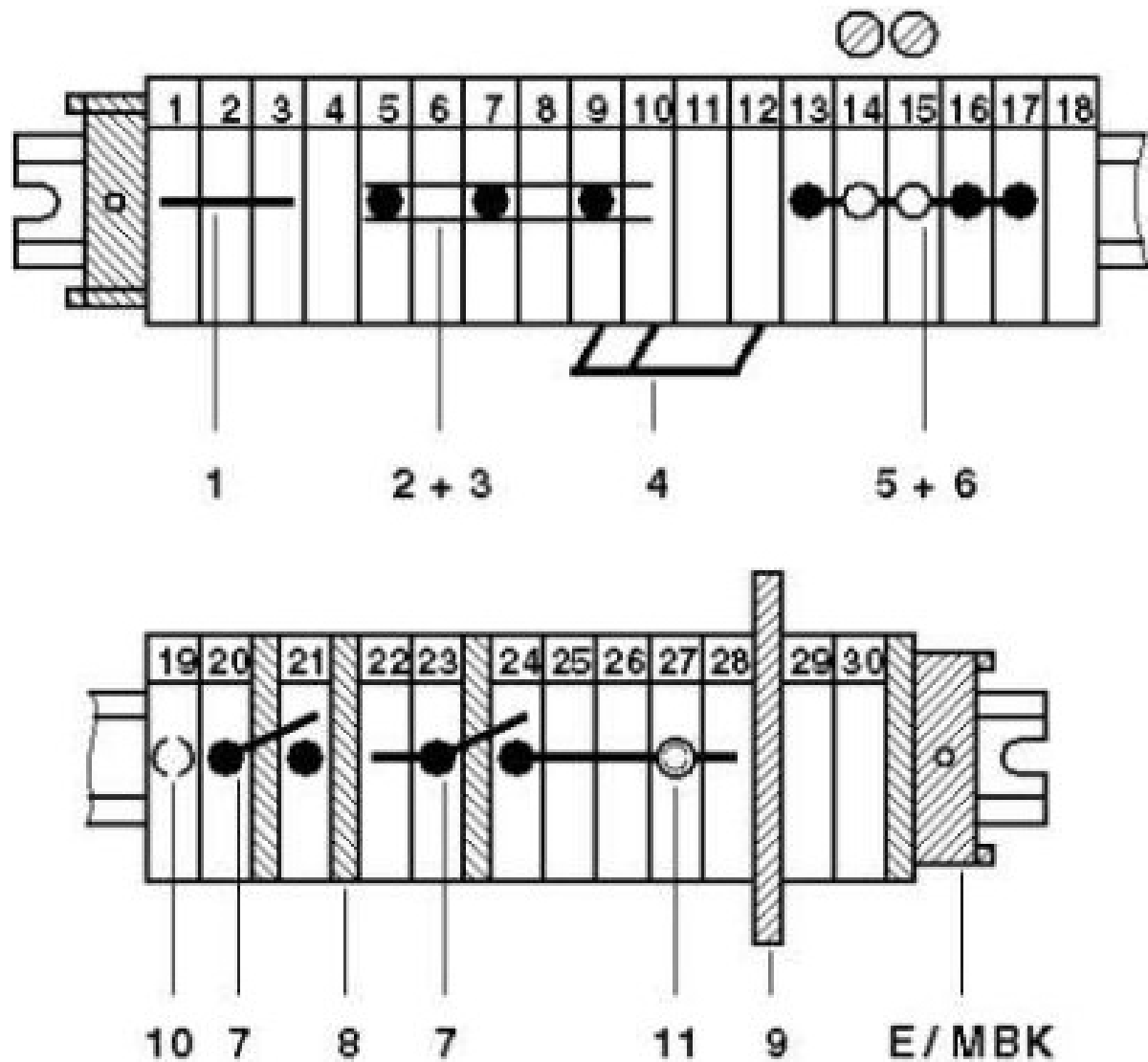


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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418073>



EAC
Approval ID: RU C-DE.BL08.B.00541

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group D				
	300 V	5 A	26 - 10	-

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
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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.

IS-K 4 - Bridge bar isolator

1302338

<https://www.phoenixcontact.com/us/products/1302338>



Bridge bar isolator, color: gray

ISSBI 10- 6 - Bridge

0301505

<https://www.phoenixcontact.com/us/products/0301505>



Bridge, pitch: 6 mm, number of positions: 10, color: silver



Max. current carrying capacity: 10 A

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FBI 10- 6 - Fixed bridge

0203250

<https://www.phoenixcontact.com/us/products/0203250>

Fixed bridge, pitch: 6.2 mm, number of positions: 10, color: silver



 Max. current carrying capacity: 10 A

FBI 20- 6 - Fixed bridge

0201867

<https://www.phoenixcontact.com/us/products/0201867>

Fixed bridge, pitch: 6.2 mm, number of positions: 20, color: silver



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FBI 100- 6 - Fixed bridge

0201650

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Fixed bridge, pitch: 6.2 mm, number of positions: 100, color: silver



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 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 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

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SBRN 2-7 - Switching jumper

1413230

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Switching jumper, pitch: 7 mm, number of positions: 2, color: silver

 Max. current carrying capacity: 10 A

D-MBK/E - End cover

1415021

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End cover, width: 1 mm, height: 26.2 mm, color: gray

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FB-150 METER - Fixed bridge

0201595

<https://www.phoenixcontact.com/us/products/0201595>



Cross connection rail, for fixed bridging of identical inputs and outputs, made of Cu, nickel-plated, 1 m long

RPS - Reducing plug

0201647

<https://www.phoenixcontact.com/us/products/0201647>



Reducing plug, number of positions: 1, color: gray

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PT/FS 2,8 - Insulating sleeve

1406700

<https://www.phoenixcontact.com/us/products/1406700>

Insulating sleeve, as touch protection, slide onto the conductor before for 2.8 slip-on sleeves



ATP-MBK - Partition plate

1413227

<https://www.phoenixcontact.com/us/products/1413227>

Partition plate, depth: 30.5 mm, width: 2.5 mm, height: 42.5 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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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

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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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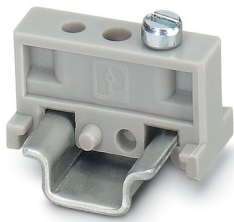
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E/MBK - End bracket

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

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End clamp width: 6 mm, color: gray



PSBJ 3/13/4 - Test plug strip

0201304

<https://www.phoenixcontact.com/us/products/0201304>

Test plug strip, number of positions: 1, color: silver



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PSB 3/10/4 - Test plug strip

0601292

<https://www.phoenixcontact.com/us/products/0601292>



Test plug strip, number of positions: 1, color: silver

C-SCF 1/2,8X0,5 - Connector

3240152

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Slip-on sleeve, non-insulated, 0.5 ... 1 mm², 2.8 x 0.5

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C-SCFI 1,5/2,8X0,5 - Connector

3240048

<https://www.phoenixcontact.com/us/products/3240048>



Slip-on sleeve, red, 0.5 ... 1.5 mm², 2.8 x 0.5

C-SCF 1/2,8X0,8 - Connector

3240153

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Slip-on sleeve, non-insulated, 0.5 ... 1 mm², 2.8 x 0.8

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C-SCFI 1,5/2,8X0,8 - Connector

3240049

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Slip-on sleeve, red, 0.5 ... 1.5 mm², 2.8 x 0.8

C-SCF 1,5/6,3X0,8 - Connector

3240156

<https://www.phoenixcontact.com/us/products/3240156>



Slip-on sleeve, non-insulated, 0.5 ... 1.5 mm², 6.3 x 0.8

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C-SCFI 1,5/6,3X0,8 - Connector

3240052

<https://www.phoenixcontact.com/us/products/3240052>



Slip-on sleeve, red, 0.5 ... 1.5 mm², 6.3 x 0.8

C-SCF 2,5/6,3X0,8 - Connector

3240159

<https://www.phoenixcontact.com/us/products/3240159>



Slip-on sleeve, non-insulated, 1.5 ... 2.5 mm², 6.3 x 0.8

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C-SCFI 2,5/6,3X0,8 - Connector

3240055

<https://www.phoenixcontact.com/us/products/3240055>



Slip-on sleeve, blue, 1.5 ... 2.5 mm², 6.3 x 0.8

C-SCF 6/6,3X0,8 - Connector

3240160

<https://www.phoenixcontact.com/us/products/3240160>



Slip-on sleeve, non-insulated, 4 ... 6 mm², 6.3 x 0.8

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C-SCFI 6/6,3X0,8 - Connector

3240056

<https://www.phoenixcontact.com/us/products/3240056>



Slip-on sleeve, yellow, 4 ... 6 mm², 6.3 x 0.8

PT/FS 6,3 - Insulating sleeve

0604707

<https://www.phoenixcontact.com/us/products/0604707>



Insulating sleeve, as touch protection, slide onto the conductor before for 6.3 slip-on sleeves

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