

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



1418112

<https://www.phoenixcontact.com/gb/products/1418112>

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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: blue

Your advantages

- This terminal block has a proven screw connection on the outside of the control cabinet
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Clear arrangement thanks to marking of all terminal points
- Easy potential distribution thanks to standardized plug-in bridges

Commercial Data

Item number	1418112
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to Order (non-returnable)
Sales Key	BE511X
Product Key	BE511X
Catalog Page	Page 521 (CL1-2011)
GTIN	4017918021542
Weight per Piece (including packing)	5.5 g
Weight per Piece (excluding packing)	5.5 g
Customs tariff number	85369010
Country of origin	PL

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 solid	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)
Flexible conductor cross section flexible (ferrule, w/o 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
Height NS 15	32 mm
Height	1.26 "
Length	28 mm

Material specifications

Color	blue
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

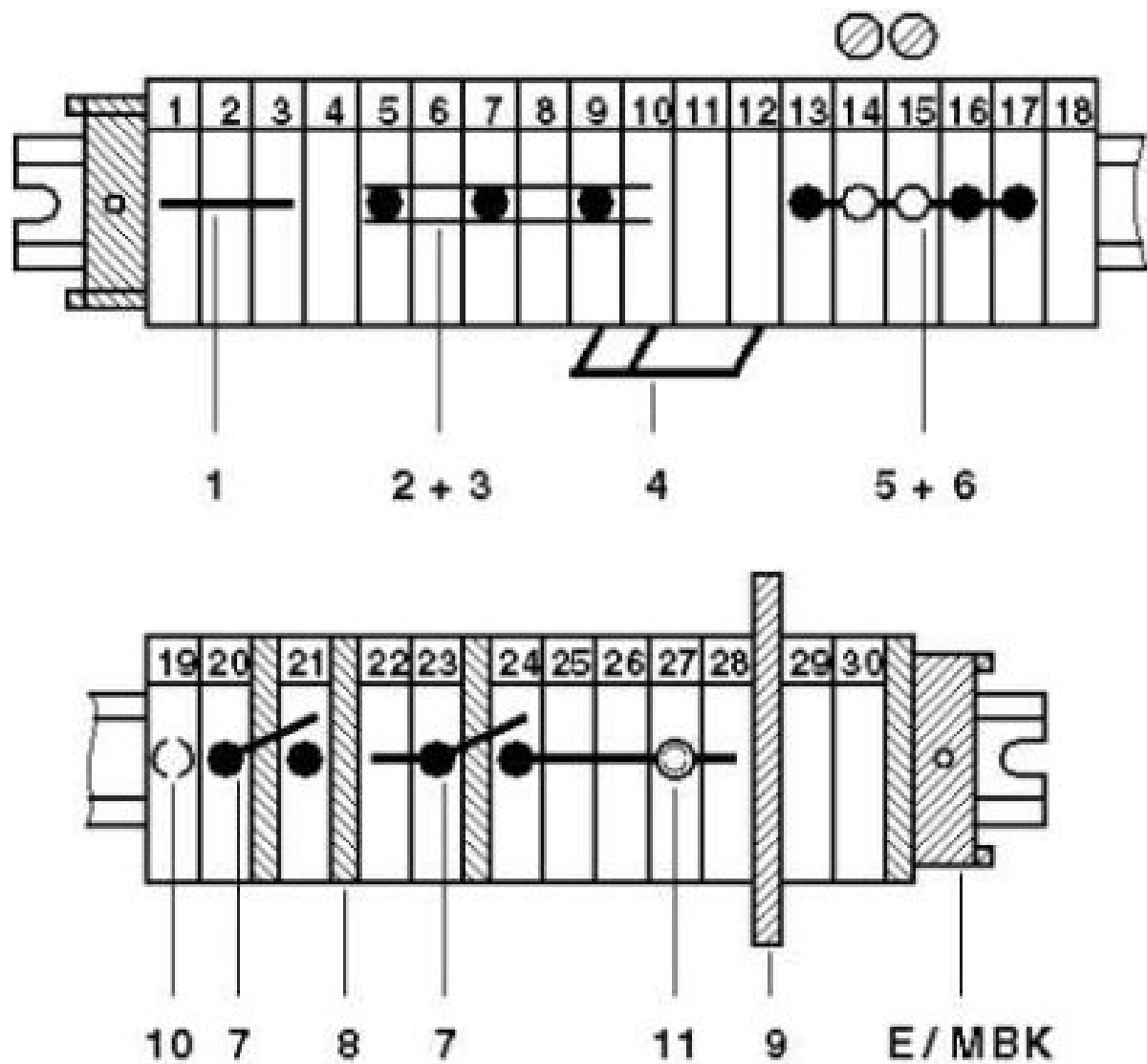
Connection in acc. with standard	IEC 60947-7-1
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Mounting

Mounting type	NS 15
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Drawings

Circuit diagram



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Approvals

	EAC Approval ID: RU C-DE.BL08.B.00541
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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 D				
	300 V	5 A	26 - 10	-

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Classifications

ECLASS

ECLASS-10.0.1	27141120
ECLASS-9.0	27141120
ECLASS-11.0	27141120

ETIM

ETIM 8.0	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.

Bridge bar isolator

Bridge bar isolator - IS-K 4 - 1302338

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



Bridge bar isolator, color: gray

Bridge

Bridge - ISSBI 10- 6 - 0301505

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



Bridge, pitch: 6 mm, color: silver



Max. current carrying capacity: 10 A

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Fixed bridge

Fixed bridge - FBI 100- 6 - 0201650

<https://www.phoenixcontact.com/gb/products/0201650>



Fixed bridge, pitch: 6.2 mm, color: silver

Fixed bridge

Fixed bridge - FBI 10- 6 - 0203250

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



Fixed bridge, pitch: 6.2 mm, color: silver

 Max. current carrying capacity: 10 A

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Fixed bridge

Fixed bridge - FBI 20- 6 - 0201867

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Fixed bridge, pitch: 6.2 mm, color: silver



Insertion bridge

Insertion bridge - EB 3- 6 - 0201142

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

Insertion bridge, pitch: 6.2 mm, color: gray



 Max. current carrying capacity: 16 A

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Insertion bridge

Insertion bridge - EB 2- 6 - 0201155

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

Insertion bridge, pitch: 6.2 mm, color: gray



 Max. current carrying capacity: 16 A

Insertion bridge

Insertion bridge - EB 10- 6 - 0201139

<https://www.phoenixcontact.com/gb/products/0201139>

Insertion bridge, pitch: 6.2 mm, color: gray



 Max. current carrying capacity: 16 A

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Switching jumper

Switching jumper - SBRN 2-7 - 1413230

<https://www.phoenixcontact.com/gb/products/1413230>

Switching jumper, pitch: 7 mm, color: silver



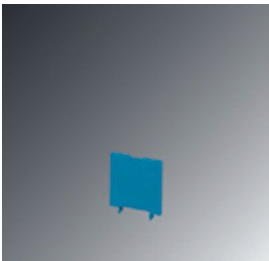
 Max. current carrying capacity: 10 A

End cover

End cover - D-MBK/E BU - 1415102

<https://www.phoenixcontact.com/gb/products/1415102>

End cover, length: 28 mm, width: 1 mm, height: 26.2 mm, color: blue



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End cover

End cover - D-MBK/E - 1415021

<https://www.phoenixcontact.com/gb/products/1415021>



End cover, length: 28 mm, width: 1 mm, height: 26.2 mm, color: gray

Fixed bridge

Fixed bridge - FB-150

METER - 0201595

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



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

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Reducing plug

Reducing plug - RPS - 0201647

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

Reducing plug, color: gray



Insulating sleeve

Insulating sleeve - PT/FS 2,8 - 1406700

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

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



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Partition plate

Partition plate - ATP-MBK - 1413227

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



Partition plate, length: 42.5 mm, width: 2.5 mm, height: 30.5 mm, color: gray

Screwdriver

Screwdriver - SZS 0,6X3,5 - 1205053

<https://www.phoenixcontact.com/gb/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

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Marker pin Zack strip

Marker pin Zack strip - BN-ZB 6,2/WH CUS - 0824276

<https://www.phoenixcontact.com/gb/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

DIN rail, unperforated

DIN rail, unperforated - NS 15 UNPERF 2000MM VPE 10 - 1401695

<https://www.phoenixcontact.com/gb/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)

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DIN rail perforated

DIN rail perforated - NS 15 PERF 2000MM VPE 10 - 1401682

<https://www.phoenixcontact.com/gb/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)

DIN rail perforated

DIN rail perforated - NS 15 AL PERF 2000MM VPE 10 - 1401763

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



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

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



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<https://www.phoenixcontact.com/gb/products/1418112>

DIN rail perforated

DIN rail perforated - NS 15 WH PERF 2000MM-VPE 10 - 1204096

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



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

End clamp

End clamp - E/MBK - 1401637

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



End clamp, width: 6.2 mm, color: gray

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End clamp

End clamp - E/MK - 1421633

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

End clamp, width: 6.2 mm, color: gray

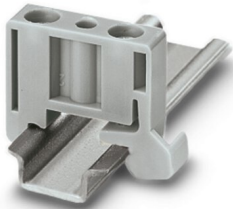


End clamp

End clamp - E/MK 1 - 1421659

<https://www.phoenixcontact.com/gb/products/1421659>

End clamp width: 6 mm, color: gray



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Female test connector

Female test connector - PSBJ 3/13/4 - 0201304

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



Female test connector, color: silver

Female test connector

Female test connector - PSB 3/10/4 - 0601292

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



Female test connector, color: silver

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Connector

Connector - C-SCF 1/2,8X0,5 - 3240152

<https://www.phoenixcontact.com/gb/products/3240152>



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

Connector

Connector - C-SCFI 1,5/2,8X0,5 - 3240048

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



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

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



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Connector

Connector - C-SCF 1/2,8X0,8 - 3240153

<https://www.phoenixcontact.com/gb/products/3240153>



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

Connector

Connector - C-SCFI 1,5/2,8X0,8 - 3240049

<https://www.phoenixcontact.com/gb/products/3240049>



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

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



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Connector

Connector - C-SCF 1,5/6,3X0,8 - 3240156

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



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

Connector

Connector - C-SCFI 1,5/6,3X0,8 - 3240052

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



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

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



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Connector

Connector - C-SCF 2,5/6,3X0,8 - 3240159

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



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

Connector

Connector - C-SCFI 2,5/6,3X0,8 - 3240055

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



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

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



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Connector

Connector - C-SCF 6/6,3X0,8 - 3240160

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



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

Connector

Connector - C-SCFI 6/6,3X0,8 - 3240056

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



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

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



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Insulating sleeve

Insulating sleeve - PT/FS 6,3 - 0604707

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



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

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