

Mini feed-through terminal block - MBK 2,5/E

1414006

<https://www.phoenixcontact.com/de/produkte/1414006>

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Mini feed-through terminal block, nom. voltage: 250 V, nominal current: 24 A, connection method: Screw connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 2.5 mm², mounting type: NS 15, color: gray

Your advantages

- Separating disks, partition plates, and test sockets complete the range of accessories
- 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

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Commercial Data

Item number	1414006
Packing unit	50 pc
Minimum order quantity	1 pc
Sales Key	A1 - Reihenklennen
Product Key	BE1261
Catalog Page	Page 516 (CL1-2011)
GTIN	4017918021269
Weight per Piece (including packing)	4,24 g
Weight per Piece (excluding packing)	3,958 g
Customs tariff number	85369010
Country of origin	IN

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1414006

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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	4 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm ²

1 level

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	7 mm
Internal cylindrical gage	A3
Conductor cross section solid	0.2 mm ² ... 2.5 mm ²
Cross section AWG	24 ... 14
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	24 ... 14
Flexible conductor cross section flexible (ferrule, w/o 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	2.5 mm ²
Cross-section with insertion bridge, flexible	2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 0.75 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 0.75 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.75 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	24 A
Maximum load current	24 A (with a 2.5 mm ² conductor cross section)
Nominal voltage	250 V
Nominal cross section	2.5 mm ²

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1414006

<https://www.phoenixcontact.com/de/produkte/1414006>

Ex data

Rated data (ATEX/IECEX)

ATEX certificate	KEMA 03 ATEX 2380 U
IEC Ex certificate	IECEX KEM 07.0016 U
Identification	□ II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1414035 D-MBK 2,5/E 1413227 ATP-MBK 1205053 SZS 0,6X3,5 1421633 E/MK
Bridge data	20 A / 2.5 mm ² 19 A / 2.5 mm ²
Ex temperature increase	34 K (22 A / 2,5 mm ²)
Rated voltage	160 V
at bridging with insertion bridge	176 V
for bridging with bridge	176 V
Rated insulation voltage	160 V

Ex level General

Rated current	22 A
Maximum load current	22 A
Contact resistance	0.35 mΩ

Ex connection data General

Torque range	0.6 Nm ... 0.8 Nm
Nominal cross section	2.5 mm ²
Rated cross section AWG	14
Connection capacity rigid	0.2 mm ² ... 2.5 mm ²
Connection capacity AWG	24 ... 14
Connection capacity flexible	0.2 mm ² ... 2.5 mm ²
Connection capacity AWG	24 ... 14
2 conductors with same cross section, solid	0.2 mm ² ... 0.75 mm ²
2 conductors with the same cross-section AWG rigid	24 ... 18
2 conductors with same cross section, stranded	0.2 mm ² ... 0.75 mm ²
2 conductors with the same cross-section AWG flexible	24 ... 18

Dimensions

Width	5.2 mm
End cover width	1 mm
Height NS 15	26.5 mm
Height	1.039 "
Length	24.5 mm

1414006

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Material specifications

Color	gray
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-40 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

Electrical tests

Surge voltage test

Test voltage setpoint	4.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm ²	0.3 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.5 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 15
Test force setpoint	1 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm ² / 0.2 kg
	2.5 mm ² / 0.7 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

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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1414006

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Drawings

Circuit diagram



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Approvals


 CSA Approval ID: 13631				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	300 V	20 A	28 - 12	-

 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	30 - 12	-
Use group C	300 V	20 A	30 - 12	-

 ATEX Approval ID: KEMA 03ATEX2380U				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	176 V	22 A	-	0.2 - 2.5

 EAC Ex Approval ID: RU C-DE.HA91.B.00066				
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 IECEx Approval ID: IECEx KEM 07.0016U				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	176 V	22 A	-	0.2 - 2.5

 CCC Approval ID: 2020322313000629				
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 NEPSI Approval ID: GYJ20.1196U				
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Classifications

ECLASS

ECLASS-9.0	27141120
ECLASS-10.0.1	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.

Fixed bridge

Fixed bridge - FBRNI 2-5 N - 3000175

<https://www.phoenixcontact.com/de/produkte/3000175>

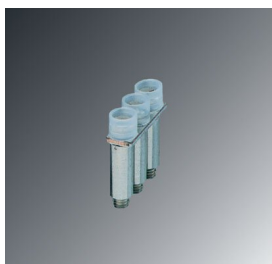


Fixed bridge, pitch: 5 mm, color: silver

Fixed bridge

Fixed bridge - FBRNI 3-5 N - 3000162

<https://www.phoenixcontact.com/de/produkte/3000162>



Fixed bridge, pitch: 5 mm, color: silver

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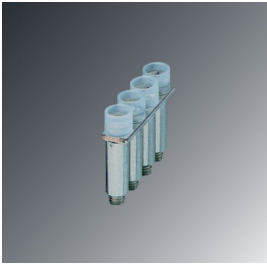
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Fixed bridge

Fixed bridge - FBRNI 4-5 N - 3000159

<https://www.phoenixcontact.com/de/produkte/3000159>

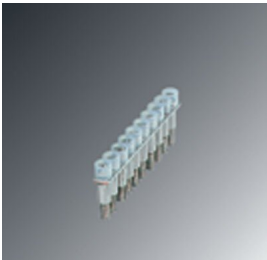


Fixed bridge, pitch: 5 mm, color: silver

Fixed bridge

Fixed bridge - FBRNI 10-5 N - 2770639

<https://www.phoenixcontact.com/de/produkte/2770639>



Fixed bridge, pitch: 5.2 mm, color: silver

 Max. current carrying capacity: 24 A

Mini feed-through terminal block - MBK 2,5/E

1414006

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Fixed bridge

Fixed bridge - FBRNI 20-5 N - 3000609

<https://www.phoenixcontact.com/de/produkte/3000609>



Fixed bridge, color: silver

Insertion bridge

Insertion bridge - EB 2- 5 - 1401158

<https://www.phoenixcontact.com/de/produkte/1401158>



Insertion bridge, pitch: 5 mm, color: gray

 Max. current carrying capacity: 22 A

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Insertion bridge

Insertion bridge - EB 3- 5 - 1401145

<https://www.phoenixcontact.com/de/produkte/1401145>

Insertion bridge, pitch: 5 mm, color: gray



 Max. current carrying capacity: 22 A


Insertion bridge

Insertion bridge - EB 10- 5 - 1401132

<https://www.phoenixcontact.com/de/produkte/1401132>

Insertion bridge, pitch: 5.2 mm, color: gray



 Max. current carrying capacity: 22 A

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End cover

End cover - D-MBK 2,5/E - 1414035

<https://www.phoenixcontact.com/de/produkte/1414035>



End cover, length: 24.5 mm, width: 1 mm, height: 20.9 mm, color: gray

DIN rail, unperforated

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

<https://www.phoenixcontact.com/de/produkte/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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1414006

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Reducing plug

Reducing plug - RPS - 0201647

<https://www.phoenixcontact.com/de/produkte/0201647>



Reducing plug, color: gray

DIN rail perforated

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

<https://www.phoenixcontact.com/de/produkte/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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Partition plate

Partition plate - ATP-MBK - 1413227

<https://www.phoenixcontact.com/de/produkte/1413227>



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

DIN rail perforated

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

<https://www.phoenixcontact.com/de/produkte/1401763>



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

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1414006

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Screwdriver

Screwdriver - SZS 0,6X3,5 - 1205053

<https://www.phoenixcontact.com/de/produkte/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

DIN rail perforated

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

<https://www.phoenixcontact.com/de/produkte/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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1414006

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Marker pin Zack strip

Marker pin Zack strip - BN-ZB 5,2/WH CUS - 0824271

<https://www.phoenixcontact.com/de/produkte/0824271>



Marker pin Zack strip, Strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: plug in, for terminal block width: 5.2 mm, lettering field size: 4 x 4 mm, Number of individual labels: 10

End clamp

End clamp - E/MBK - 1401637

<https://www.phoenixcontact.com/de/produkte/1401637>



End clamp, width: 6.2 mm, color: gray

Mini feed-through terminal block - MBK 2,5/E

1414006

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Marker pin Zack strip

Marker pin Zack strip - BN-ZB 5,2/WH:UNBEDRUCKT - 1401815

<https://www.phoenixcontact.com/de/produkte/1401815>



Marker pin Zack strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: plug in, for terminal block width: 5.2 mm, lettering field size: 4 x 4 mm, Number of individual labels: 10

End clamp

End clamp - E/MK - 1421633

<https://www.phoenixcontact.com/de/produkte/1421633>



End clamp, width: 6.2 mm, color: gray

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1414006

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Marker for terminal blocks

Marker for terminal blocks - UC-TMN 5,2 - 0822945

<https://www.phoenixcontact.com/de/produkte/0822945>

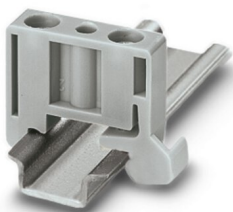


Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 3.97 x 4.6 mm, Number of individual labels: 96

End clamp

End clamp - E/MK 1 - 1421659

<https://www.phoenixcontact.com/de/produkte/1421659>



End clamp width: 6 mm, color: gray

Mini feed-through terminal block - MBK 2,5/E

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Marker for terminal blocks

Marker for terminal blocks - UC-TMN 5,2 CUS - 0826857

<https://www.phoenixcontact.com/de/produkte/0826857>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: plug in, for terminal block width: 5.2 mm, lettering field size: 3.97 x 4.6 mm, Number of individual labels: 96

Female test connector

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

<https://www.phoenixcontact.com/de/produkte/0201304>



Female test connector, color: silver

Mini feed-through terminal block - MBK 2,5/E

1414006

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Female test connector

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

<https://www.phoenixcontact.com/de/produkte/0601292>



Female test connector, color: silver

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