

MBK - Mini feed-through terminal block



1401019

<https://www.phoenixcontact.com/us/products/1401019>

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Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Screw connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.2 mm² - 2.5 mm², mounting type: NS 15, color: gray

Your advantages

- MBK ... mini strip terminal blocks and their variants represent the original, typical shape of the MBK ... range
- 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	1401019
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BE12
Product key	BE1261
Catalog page	Page 520 (CL1-2011)
GTIN	4017918020194
Weight per piece (including packing)	4.343 g
Weight per piece (excluding packing)	4.31 g
Customs tariff number	85369010
Country of origin	DE

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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	0.56 W

Connection data

Number of connections per level	2
Nominal cross section	1.5 mm ²

1 level

Screw thread	M2,6
Tightening torque	0.5 ... 0.6 Nm
Stripping length	8 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Cross section AWG	24 ... 14 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	24 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 1 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 ... 0.75 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 1 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 0.75 mm ²
Nominal current	17.5 A
Maximum load current	24 A (with a 2.5 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	1.5 mm ²

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Dimensions

Width	5 mm
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Material specifications

Color	gray
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 kA
Short-time withstand current 2.5 mm ²	0.3 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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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

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Conductor cross section/weight	0.2 mm ² / 0.2 kg
	1.5 mm ² / 0.4 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 (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

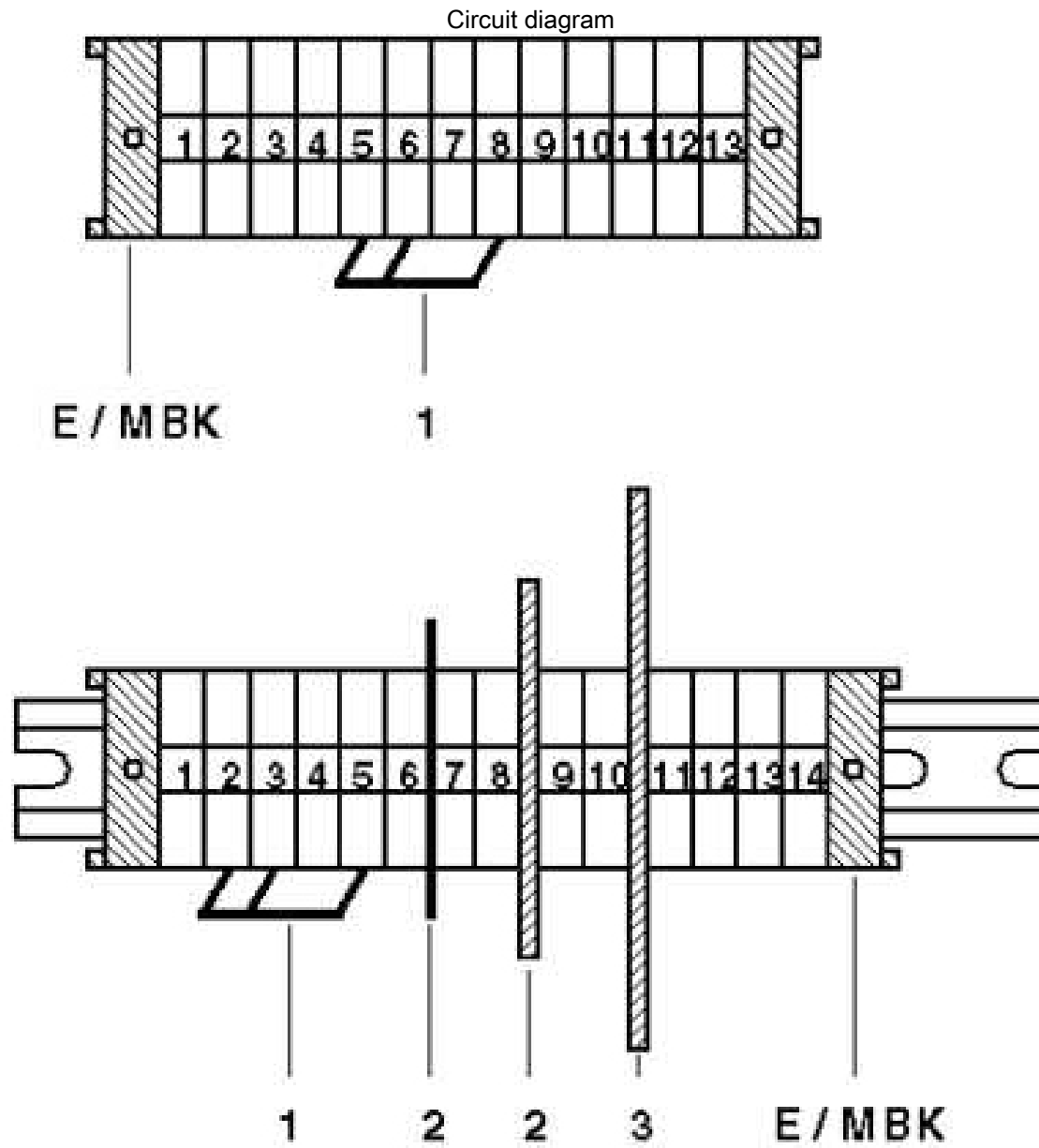
Mounting type	NS 15
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Drawings



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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/1401019>

DNV

Approval ID: TAE00001CT



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	150 V	25 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	15 A	30 - 14	-
Use group C				
	300 V	15 A	30 - 14	-

ClassNK

NK

Approval ID: 09 ME 142

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

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.

EB 2- 5 - Insertion bridge

1401158

<https://www.phoenixcontact.com/us/products/1401158>

Insertion bridge, pitch: 5 mm, number of positions: 2, color: gray



Max. current carrying capacity: 24 A

EB 3- 5 - Insertion bridge

1401145

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Insertion bridge, pitch: 5 mm, number of positions: 3, color: gray



Max. current carrying capacity: 24 A

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EB 5- 5 - Insertion bridge

1401174

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Insertion bridge, number of positions: 5, color: gray



 Max. current carrying capacity: 24 A

EB 6- 5 - Insertion bridge

1401187

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Insertion bridge, number of positions: 6, color: gray



 Max. current carrying capacity: 24 A

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EB 10- 5 - Insertion bridge

1401132

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Insertion bridge, pitch: 5.2 mm, number of positions: 10, color: gray

 Max. current carrying capacity: 24 A

ATP-MBK - Partition plate

1413227

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

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ATS-MBK - Separating plate

1402225

<https://www.phoenixcontact.com/us/products/1402225>

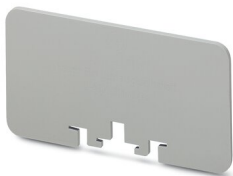


Separating plate, length: 30 mm, width: 0.5 mm, height: 26.6 mm, color: gray

TP-BK/MBK - Separating plate

0801791

<https://www.phoenixcontact.com/us/products/0801791>



Separating plate, length: 80 mm, width: 2 mm, height: 42 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 5,2/WH CUS - Marker pin Zack strip

0824271

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

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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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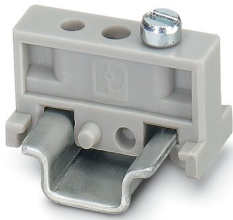
<https://www.phoenixcontact.com/us/products/1401019>



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

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

End clamp width: 6 mm, color: gray



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