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Mini feed-through terminal block, nom. voltage: 250 V, nominal current: 24 A, number of connections: 2, 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: blue

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

Commercial data

Item number	1414019
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	BE1261
Catalog page	Page 516 (CL1-2011)
GTIN	4017918021276
Weight per piece (including packing)	4.27 g
Weight per piece (excluding packing)	4.02 g
Customs tariff number	85369010
Country of origin	IN

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



1414019

<https://www.phoenixcontact.com/pc/products/1414019>

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
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 ... 2.5 mm ²
Conductor cross section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without 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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Ex data

Rated data (ATEX/IECEx)

Identification	Ex e II
Operating temperature range	-50 °C ... 110 °C
Ex-certified accessories	1414035 D-MBK 2,5/E
	1413227 ATP-MBK
	1205053 SZS 0,6X3,5
	1421633 E/MK
List of bridges	Fixed bridge / FBRN 10-5-EX / 3000612
Bridge data	20 A / 2.5 mm²
List of bridges	Insertion bridge / EB 2- 5 / 1401158
	Insertion bridge / EB 3- 5 / 1401145
	Insertion bridge / EB 10- 5 / 1401132
Bridge data	19 A / 2.5 mm²
Ex temperature increase	34 K (22 A / 2,5 mm²)
Rated voltage	176 V
at bridging with insertion bridge	176 V
for bridging with bridge	176 V
Rated insulation voltage	160 V
output	(Permanent)

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 mm²
Rated cross section AWG	14
Connection capacity rigid	0.2 mm² ... 2.5 mm²
Connection capacity AWG	24 ... 14
Connection capacity flexible	0.2 mm² ... 2.5 mm²
Connection capacity AWG	24 ... 14
2 conductors with same cross section, solid	0.2 mm² ... 0.75 mm²
2 conductors with the same cross-section AWG rigid	24 ... 18
2 conductors with same cross section, stranded	0.2 mm² ... 0.75 mm²
2 conductors with the same cross-section AWG flexible	24 ... 18

Dimensions

Width	5.2 mm
End cover width	1 mm

Material specifications

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Color	blue
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

Mechanical properties

Mechanical data

Open side panel	Yes
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Environmental and real-life conditions

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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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1414019>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group keine				
	300 V	20 A	28 - 12	-

 EAC Approval ID: RU C-DE.BL08.B.00534				
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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 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
Use group keine				
	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
Use group keine				
	176 V	22 A	-	0.2 - 2.5

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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

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%

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