

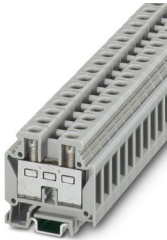
MBK 6/E - Mini feed-through terminal block



0552024

<https://www.phoenixcontact.com/pc/products/0552024>

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Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 41 A, number of connections: 2, connection method: Screw connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting type: NS 15, color: gray

Your advantages

- Separating disks, partition plates, and test sockets complete the range of accessories
- 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	0552024
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	BE1261
Catalog page	Page 558 (C-1-2019)
GTIN	4017918002893
Weight per piece (including packing)	13.849 g
Weight per piece (excluding packing)	13.024 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	1.31 W

Connection data

Number of connections per level	2
Nominal cross section	6 mm ²

1 level

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	10 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm ² ... 10 mm ²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 6 mm ²
Conductor cross section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 6 mm ²
Cross-section with insertion bridge, rigid	6 mm ²
Cross-section with insertion bridge, flexible	4 mm ²
2 conductors with same cross section, solid	0.5 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 2.5 mm ²
Nominal current	41 A
Maximum load current	57 A (with 10 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	6 mm ²

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Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 105 °C
Ex-certified accessories	1413049 D-MBK 6/E
	0554019 TP-MBK 6/E
	1205066 SZS 1,0X4,0 VDE
	1421633 E/MK
List of bridges	Fixed bridge / FBI 2- 8 / 0200020
	Fixed bridge / FBI 3- 8 / 0200059
	Fixed bridge / FBI 4- 8 / 0200046
	Fixed bridge / FBI 10- 8 / 0203263
Bridge data	33 A / 6 mm²
Ex temperature increase	40 K (41 A at 6 mm²)
Rated voltage	275 V
for bridging with bridge	275 V
Rated insulation voltage	250 V
output	(Permanent)

Ex level General

Rated current	37 A
Maximum load current	49 A
Contact resistance	0.78 mΩ

Ex connection data General

Torque range	1.5 Nm ... 1.8 Nm
Nominal cross section	6 mm²
Rated cross section AWG	10
Connection capacity rigid	0.5 mm² ... 10 mm²
Connection capacity AWG	20 ... 8
Connection capacity flexible	0.5 mm² ... 6 mm²
Connection capacity AWG	20 ... 10
2 conductors with same cross section, solid	0.5 mm² ... 2.5 mm²
2 conductors with the same cross-section AWG rigid	20 ... 14
2 conductors with same cross section, stranded	0.5 mm² ... 2.5 mm²
2 conductors with the same cross-section AWG flexible	20 ... 14

Dimensions

Width	8.2 mm
End cover width	1.5 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V2

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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

Result	Test passed
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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm ²	0.72 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 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	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm ² / 0.3 kg
	6 mm ² / 1.4 kg
	10 mm ² / 2 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
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Result	Test passed
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Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
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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

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/0552024>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	300 V	50 A	26 - 8	-

 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	50 A	26 - 8	-
Use group C				
	300 V	50 A	26 - 8	-
Use group D				
	600 V	5 A	26 - 8	-

 ATEX Approval ID: KEMA 01ATEX2134U				
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 EAC Ex Approval ID: RU C-DE.HA91.B.00066				
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 IECEx Approval ID: IECEx KEM 07.0008U				
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 CCC Approval ID: 2020322313000629				
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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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