

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 32 A, number of connections: 2, connection method: Screw connection, 1 level, Rated cross section: 4 mm², cross section: 0.2 mm² - 6 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	1402940
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE1
Product key	BE1261
Catalog page	Page 517 (CL1-2011)
GTIN	4017918116941
Weight per piece (including packing)	6.12 g
Weight per piece (excluding packing)	6.12 g
Customs tariff number	85369010
Country of origin	IN

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

Technical data

Product properties

Product type	Miniature terminal block
Number of connections	2
Number of rows	1
Potentials	1

Data management status

Article revision	05
------------------	----

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

1 level

Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	8 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm ² ... 6 mm ²
Cross section AWG	24 ... 10 (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)
Conductor cross-section flexible (ferrule without 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	4 mm ²
Cross-section with insertion bridge, flexible	4 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 ... 1.5 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	32 A
Maximum load current	41 A (with 6 mm ² conductor cross section)

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

Nominal voltage	500 V
Nominal cross section	4 mm ²

Dimensions

Width	6.2 mm
End cover width	1 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
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	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 4 mm ²	0.48 kA
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
-----------------	-----

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

Attachment on the carrier

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

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm ² / 0.2 kg
	4 mm ² / 0.9 kg
	6 mm ² / 1.4 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
----------------------------------	---------------

Mounting

Mounting type	NS 15
---------------	-------

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

Drawings

Circuit diagram



MBK 5/E-Z - Mini feed-through terminal block





1402940


<https://www.phoenixcontact.com/in/products/1402940>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1402940>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	300 V	30 A	26 - 10	-
Use group C	300 V	30 A	26 - 10	-

 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	30 A	26 - 10	-
Use group C	300 V	30 A	26 - 10	-
Use group F	500 V	30 A	26 - 10	-
Use group D	600 V	5 A	26 - 10	-

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 8.0	EC000897
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	3a046ad1-cc2f-4ce6-b889-c9b10981ed49

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



Accessories

i Note: Applying some accessories below might limit this product.

FBI 10- 6 - Fixed bridge

0203250

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



Fixed bridge, pitch: 6.2 mm, number of positions: 10, color: silver

i Max. current carrying capacity: 41 A

FBI 20- 6 - Fixed bridge

0201867

<https://www.phoenixcontact.com/in/products/0201867>



Fixed bridge, pitch: 6.2 mm, number of positions: 20, color: silver

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



FBI 100- 6 - Fixed bridge

0201650

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



Fixed bridge, pitch: 6.2 mm, number of positions: 100, color: silver


EB 2- 6 - Insertion bridge

0201155

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



Insertion bridge, pitch: 6.2 mm, number of positions: 2, color: gray

 Max. current carrying capacity: 32 A

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>




EB 3- 6 - Insertion bridge

0201142

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

Insertion bridge, pitch: 6.2 mm, number of positions: 3, color: gray



 Max. current carrying capacity: 32 A


EB 10- 6 - Insertion bridge

0201139

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

Insertion bridge, pitch: 6.2 mm, number of positions: 10, color: gray



 Max. current carrying capacity: 32 A

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>




SBRN 2-7 - Switching jumper

1413230

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



Switching jumper, pitch: 7 mm, number of positions: 2, color: silver

 Max. current carrying capacity: 24 A

D-MBK/E - End cover

1415021

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



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

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



TS-KK 3 - Separating plate

2770215

<https://www.phoenixcontact.com/in/products/2770215>



Separating plate, depth: 16 mm, width: 0.5 mm, height: 14 mm, color: gray

ATP-MBK - Partition plate

1413227

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



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

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



SBS 6:UNBEDRUCKT - Marker card

1007222

<https://www.phoenixcontact.com/in/products/1007222>



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, mounting type: snapped, snap into flat marker groove, for terminal block width: 6 mm, lettering field size: 6 x 6.1 mm, Number of individual labels: 250

SZS 0,6X3,5 - Screwdriver

1205053

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

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



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

1401695

<https://www.phoenixcontact.com/in/products/1401695>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 15 PERF 2000MM VPE 10 - DIN rail perforated

1401682

<https://www.phoenixcontact.com/in/products/1401682>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



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

1401763

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



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

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

1204096

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



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

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



ZB 6:UNBEDRUCKT - Zack marker strip

1051003

<https://www.phoenixcontact.com/in/products/1051003>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

ZB 6 CUS - Zack marker strip

0824992

<https://www.phoenixcontact.com/in/products/0824992>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

ZB 6,LGS:FORTL.ZAHLEN - Zack marker strip

1051016

<https://www.phoenixcontact.com/in/products/1051016>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10

ZB 6,QR:FORTL.ZAHLEN - Zack marker strip

1051029

<https://www.phoenixcontact.com/in/products/1051029>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

ZB 6,LGS:GLEICHE ZAHLEN - Zack marker strip

1051032

<https://www.phoenixcontact.com/in/products/1051032>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

ZB 6,LGS:L1-N,PE - Marker for terminal blocks

1051414

<https://www.phoenixcontact.com/in/products/1051414>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

MBK 5/E-Z - Mini feed-through terminal block



1402940

<https://www.phoenixcontact.com/in/products/1402940>

ZB 6,LGS:U-N - Marker for terminal blocks

1051430

<https://www.phoenixcontact.com/in/products/1051430>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

UC-TM 6 - Marker for terminal blocks

0818085

<https://www.phoenixcontact.com/in/products/0818085>



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: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



UC-TM 6 CUS - Marker for terminal blocks

0824589

<https://www.phoenixcontact.com/in/products/0824589>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

UCT-TM 6 - Marker for terminal blocks

0828736

<https://www.phoenixcontact.com/in/products/0828736>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



UCT-TM 6 CUS - Marker for terminal blocks

0829602

<https://www.phoenixcontact.com/in/products/0829602>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

E/MBK - End bracket

1401637

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



End clamp, width: 6.2 mm, color: gray

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>

E/MK - End bracket

1421633

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



End clamp, width: 6.2 mm, color: gray

E/MK 1 - End bracket

1421659

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



End clamp width: 6 mm, color: gray

MBK 5/E-Z - Mini feed-through terminal block

1402940

<https://www.phoenixcontact.com/in/products/1402940>



PSB 3/10/4 - Test plug strip

0601292

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

Test plug strip, number of positions: 1, color: silver



Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in