

## Mini feed-through terminal block - MBK 10 BU - 1402092

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Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 61 A, connection method: Screw connection, number of connections: 2, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 7.5 mm, color: blue, mounting type: NS 15

### Your advantages

- ✓ 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

RoHS

### Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	 4 017918 020774
GTIN	4017918020774

### Technical data

#### General

Number of levels	1
Number of connections	2
Color	blue
Insulating material	PA
Flammability rating according to UL 94	V0
Nominal current I <sub>N</sub>	61 A
Nominal voltage U <sub>N</sub>	500 V
Open side panel	No
Shock protection test specification	IEC 60529:1989-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed

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## Technical data

### General

Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.5 mm <sup>2</sup> / 0.3 kg
	6 mm <sup>2</sup> / 1.4 kg
	10 mm <sup>2</sup> / 2 kg
Tensile test result	Test passed
Result of tight fit on support	Test passed
Tight fit on carrier	NS 15
Setpoint	5 N
Result of voltage-drop test	Test passed
Result of temperature-rise test	Test passed
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Short circuit stability result	Test passed
Conductor cross section short circuit testing	6 mm <sup>2</sup>
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm <sup>2</sup>
Short-time current	1.2 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

### Dimensions

Width	7.5 mm
Length	33 mm
Height NS 35/7,5	32.5 mm

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## Technical data

### Connection data

Connection	1 level
Connection method	Screw connection
Stripping length	10 mm
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	6 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm <sup>2</sup>

### Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Classifications

### eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

### ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897

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## Classifications

### ETIM

ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

## Approvals

### Approvals

Approvals

EAC / EAC / EAC

Ex Approvals

### Approval details

EAC		EAC-Zulassung
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EAC		RU C- DE.A*30.B.01742
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EAC		RU C- DE.BL08.B.00534
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## Accessories

Accessories

## Mini feed-through terminal block - MBK 10 BU - 1402092

### Accessories

#### DIN rail

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



DIN rail, unperforated, Standard profile, width: 15 mm, height: 5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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DIN rail perforated - NS 15 PERF 2000MM - 1401682



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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#### End block

End clamp - E/MBK - 1401637



End clamp, width: 6.2 mm, color: gray

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## Mini feed-through terminal block - MBK 10 BU - 1402092

### Accessories

End clamp - E/MK - 1421633



End clamp, width: 6.2 mm, color: gray

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End clamp - E/MK 1 - 1421659



End clamp width: 6 mm, color: gray

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### Insertion bridge

Insertion bridge - EB 2- BK 4 - 0801157



Insertion bridge, 2-pos., for strip terminal block, BK 4

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Insertion bridge - EB 3- BK 4 - 0801144



Insertion bridge, 3-pos., for strip terminal block, BK 4

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Insertion bridge - EB 10- BK 4 - 0801131



Insertion bridge, 10-pos., for strip terminal block, BK 4

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### Labeled terminal marker

## Mini feed-through terminal block - MBK 10 BU - 1402092

### Accessories

Marker pin Zack strip - BN-ZB 7,5/WH CUS - 0824278



Marker pin Zack strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: plug in, for terminal block width: 7.5 mm, lettering field size: 6 x 4 mm

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### Partition plate

Partition plate - ATP-MBK - 1413227



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

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### Terminal marking

Marker pin Zack strip - BN-ZB 7,5/WH-100:UNBEDRUCKT - 5060854



Marker pin Zack strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: plug in, for terminal block width: 7.5 mm, lettering field size: 6 x 4 mm, Number of individual labels: 1000

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Marker pin Zack strip - BN-ZB 7,5/WH:UNBEDRUCKT - 1401844



Marker pin Zack strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: plug in, for terminal block width: 7.5 mm, lettering field size: 6 x 4 mm, Number of individual labels: 10

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