

## Mini feed-through terminal block - MBK 5/E-FS - 1418073

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Mini feed-through terminal block, connection method: Screw/plug-in connection, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, width: 6.2 mm, color: gray, mounting: NS 15

### Your advantages

- ✓ This terminal block has a proven screw connection on the outside of the control cabinet
- ✓ 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

### Key Commercial Data

Packing unit	50 pc
GTIN	
GTIN	4017918021535

### Technical data

#### General

Number of levels	1
Number of connections	2
Nominal cross section	4 mm <sup>2</sup>
Color	gray
Insulating material	PA-F
Flammability rating according to UL 94	HB
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	1.02 W
Ambient temperature (operation)	-60 °C ... 85 °C

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## Technical data

### General

Ambient temperature (storage/transport)	-25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Connection method	Screw/plug-in connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	16 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	16 A
Nominal voltage U <sub>N</sub>	500 V
Open side panel	Yes
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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	6.2 mm
Length	28 mm
End cover width	1 mm

### Connection data

Connection method	Screw/plug-in connection
Connection in acc. with standard	IEC 60947-7-1
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	4 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	24

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## Technical data

### Connection data

Max. AWG conductor cross section, flexible	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Cross section with insertion bridge, solid max.	2.5 mm <sup>2</sup>
Cross section with insertion bridge, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum	0.25 mm <sup>2</sup>
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum	1 mm <sup>2</sup>
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum	0.5 mm <sup>2</sup>
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum	1.5 mm <sup>2</sup>
Internal cylindrical gage	A3

### Standards and Regulations

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

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Circuit diagram



# Mini feed-through terminal block - MBK 5/E-FS - 1418073

## 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
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

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#### Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

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#### Ex Approvals

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### Approval details

# Mini feed-through terminal block - MBK 5/E-FS - 1418073

## Approvals

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
Nominal voltage UN		300 V	
Nominal current IN		5 A	
mm <sup>2</sup> /AWG/kcmil		26-10	

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
Nominal voltage UN		300 V	
Nominal current IN		5 A	
mm <sup>2</sup> /AWG/kcmil		26-10	

EAC		RU C- DE.A*30.B.01742
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EAC		RU C- DE.BL08.B.00541
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cULus Recognized	
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## Accessories

### Accessories

#### Bridge

Fixed bridge - FB-150 METER - 0201595



Cross connection rail, for fixed bridging of identical inputs and outputs, made of Cu, nickel-plated, 1 m long

## Connector

## Mini feed-through terminal block - MBK 5/E-FS - 1418073

### Accessories

Connector - C-SCF 1/2,8X0,5 - 3240152



Slip-on sleeve, non-insulated, 0.5 ... 1 mm<sup>2</sup>, 2.8 x 0.5

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Connector - C-SCFI 1,5/2,8X0,5 - 3240048



Slip-on sleeve, red, 0.5 ... 1.5 mm<sup>2</sup>, 2.8 x 0.5

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Connector - C-SCF 1/2,8X0,8 - 3240153



Slip-on sleeve, non-insulated, 0.5 ... 1 mm<sup>2</sup>, 2.8 x 0.8

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Connector - C-SCFI 1,5/2,8X0,8 - 3240049



Slip-on sleeve, red, 0.5 ... 1.5 mm<sup>2</sup>, 2.8 x 0.8

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Connector - C-SCF 1,5/6,3X0,8 - 3240156



Slip-on sleeve, non-insulated, 0.5 ... 1.5 mm<sup>2</sup>, 6.3 x 0.8

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## Mini feed-through terminal block - MBK 5/E-FS - 1418073

### Accessories

Connector - C-SCFI 1,5/6,3X0,8 - 3240052



Slip-on sleeve, red, 0.5 ... 1.5 mm<sup>2</sup>, 6.3 x 0.8

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Connector - C-SCF 2,5/6,3X0,8 - 3240159



Slip-on sleeve, non-insulated, 1.5 ... 2.5 mm<sup>2</sup>, 6.3 x 0.8

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Connector - C-SCFI 2,5/6,3X0,8 - 3240055



Slip-on sleeve, blue, 1.5 ... 2.5 mm<sup>2</sup>, 6.3 x 0.8

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Connector - C-SCF 6/6,3X0,8 - 3240160



Slip-on sleeve, non-insulated, 4 ... 6 mm<sup>2</sup>, 6.3 x 0.8

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Connector - C-SCFI 6/6,3X0,8 - 3240056



Slip-on sleeve, yellow, 4 ... 6 mm<sup>2</sup>, 6.3 x 0.8

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DIN rail

## Mini feed-through terminal block - MBK 5/E-FS - 1418073

### Accessories

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 5/E-FS - 1418073

### 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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End cover

End cover - D-MBK/E - 1415021



End cover, length: 28 mm, width: 1 mm, height: 26.2 mm, color: gray

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Insertion bridge

Insertion bridge - EB 2- 6 - 0201155



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

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Insertion bridge - EB 3- 6 - 0201142



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

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## Mini feed-through terminal block - MBK 5/E-FS - 1418073

### Accessories

Insertion bridge - EB 10- 6 - 0201139



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

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### Insulating sleeve

Insulating sleeve - PT/FS 2,8 - 1406700



Insulating sleeve, as touch protection, slide onto the conductor before for 2.8 slip-on sleeves

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Bridge bar isolator - IS-K 4 - 1302338



Bridge bar isolator, color: gray

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Insulating sleeve - PT/FS 2,8 - 1406700



Insulating sleeve, as touch protection, slide onto the conductor before for 2.8 slip-on sleeves

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Insulating sleeve - PT/FS 6,3 - 0604707



Insulating sleeve, as touch protection, slide onto the conductor before for 6.3 slip-on sleeves

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### Labeled terminal marker

## Mini feed-through terminal block - MBK 5/E-FS - 1418073

### Accessories

Marker pin Zack strip - BN-ZB 6,2/WH CUS - 0824276



Marker pin Zack strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: plug in, for terminal block width: 6.2 mm, lettering field size: 4 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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### Screw bridge

Jumper - ISSBI 10- 6 - 0301505



Jumper, pitch: 6 mm, number of positions: 10, color: silver

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Fixed bridge - FBI 10- 6 - 0203250



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

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Fixed bridge - FBI 20- 6 - 0201867



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

## Mini feed-through terminal block - MBK 5/E-FS - 1418073

### Accessories

Fixed bridge - FBI 100- 6 - 0201650



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

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### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 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

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### Switching jumper

Switching jumper - SBRN 2-7 - 1413230



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

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### Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

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### Test socket

Female test connector - PSBJ 3/13/4 - 0201304



Female test connector, color: silver

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## Mini feed-through terminal block - MBK 5/E-FS - 1418073

### Accessories

Female test connector - PSB 3/10/4 - 0601292



Female test connector, color: silver

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