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Mini feed-through terminal block, nom. voltage: 250 V, nominal current: 24 A, connection method: Screw connection, number of connections: 2, cross section:0.2 mm² - 2.5 mm², AWG: 24 - 14, width: 5.2 mm, color: gray, mounting type: NS 15

### Why buy this product

- 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



### **Key Commercial Data**

Packing unit	50 STK
Minimum order quantity	50 STK
GTIN	4 017918 021269
GTIN	4017918021269
Weight per Piece (excluding packing)	3.960 g
Custom tariff number	85369010
Country of origin	India

### Technical data

#### General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	2.5 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V2
Rated surge voltage	4 kV



# Technical data

### General

Degree of pollution	3
Overvoltage category	
Insulating material group	
Maximum power dissipation for nominal condition	0.77 W
Maximum load current	24 A (with a 2.5 mm² conductor cross section)
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	250 V
Open side panel	Yes
Shock protection test specification	IEC 60529:2001-02
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	4.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.5 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	0.2 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.2 mm²
Tractive force setpoint	10 N
Conductor cross section tensile test	2.5 mm²
Tractive force setpoint	50 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 15
Setpoint	1 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	2.5 mm²
Short-time current	0.3 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)	125 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C

Static insulating material application in cold



# Mini feed-through terminal block - MBK 2,5/E - 1414006

## Technical data

### General

Dimensions		
Width	5.2 mm	
End cover width	1 mm	
Length	24.5 mm	

26.5 mm

#### Connection data

Height NS 15

Connection data	
Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm²
Cross section with insertion bridge, solid max.	2.5 mm²
Cross section with insertion bridge, stranded max.	2.5 mm²
2 conductors with same cross section, solid min.	0.2 mm²
2 conductors with same cross section, solid max.	0.75 mm²
2 conductors with same cross section, stranded min.	0.2 mm²
2 conductors with same cross section, stranded max.	0.75 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	0.75 mm²
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm <sup>2</sup>



## Technical data

### Connection data

Conductor cross section flexible max.	2.5 mm²
Stripping length	7 mm
Internal cylindrical gage	A3
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V2

### **Environmental Product Compliance**

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

## Drawings

Circuit diagram

## Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / PRS / EAC / cULus Recognized

Ex Approvals

IECEx / ATEX / EAC Ex

### Approval details

CSA	<b>(1)</b>	http://www.csagroup.org/services-industries/product-listing/		13631
Nominal voltage UN			300 V	
Nominal current IN			20 A	



# Approvals

mm²/AWG/kcmil	28-12

UL Recognized	<i>7</i> .1	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 60425
Nominal voltage UN			300 V	
Nominal current IN			20 A	
mm²/AWG/kcmil			30-12	

cUL Recognized	. <b>71</b>	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 60425
Nominal voltage UN			300 V	
Nominal current IN			20 A	
mm²/AWG/kcmil			30-12	

PRS	http://www.prs.pl/	TE/1824/880590/09
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EAC	EAE	EAC-Zulassung
	LIIL	

cULus Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

## Accessories

### 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



### Accessories

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

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

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: white

### End block

End clamp - E/MBK - 1401637



End clamp, width: 6.2 mm, color: gray

End clamp - E/MK - 1421633



End clamp, width: 6.2 mm, color: gray



### Accessories

End clamp - E/MK 1 - 1421659



End clamp width: 6 mm, color: gray

#### End cover

End cover - D-MBK 2,5/E - 1414035



End cover, length: 24.5 mm, width: 1 mm, height: 20.9 mm, color: gray

### Insertion bridge

Insertion bridge - EB 2- 5 - 1401158



Insertion bridge, pitch: 5 mm, number of positions: 2, color: gray

Insertion bridge - EB 3- 5 - 1401145



Insertion bridge, pitch: 5 mm, number of positions: 3, color: gray

Insertion bridge - EB 10- 5 - 1401132



Insertion bridge, pitch: 5.2 mm, number of positions: 10, color: gray

Labeled terminal marker



### Accessories

Marker pin Zack strip - BN-ZB 5,2/WH CUS - 0824271



Marker pin Zack strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: Plug in, for terminal block width: 5.2 mm, lettering field size: 4 x 4 mm

Marker for terminal blocks - UC-TMN 5,2 CUS - 0826857



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: Plug in, for terminal block width: 5.2 mm, lettering field size: 3.97 x 4.6 mm

#### Partition plate

Partition plate - ATP-MBK - 1413227



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

#### Screw bridge

Fixed bridge - FBRNI 2-5 N - 3000175



Fixed bridge, pitch: 5 mm, number of positions: 2, color: silver

Fixed bridge - FBRNI 3-5 N - 3000162



Fixed bridge, pitch: 5 mm, number of positions: 3, color: silver



### Accessories

Fixed bridge - FBRNI 4-5 N - 3000159



Fixed bridge, pitch: 5 mm, number of positions: 4, color: silver

Fixed bridge - FBRNI 10-5 N - 2770639



Fixed bridge, pitch: 5.2 mm, number of positions: 10, color: silver

Fixed bridge - FBRNI 20-5 N - 3000609



Fixed bridge, number of positions: 20, color: silver

### 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

## Terminal marking

Marker pin Zack strip - BN-ZB 5,2/WH:UNBEDRUCKT - 1401815



Marker pin Zack strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: Plug in, for terminal block width: 5.2 mm, lettering field size: 4 x 4 mm



### Accessories

Marker for terminal blocks - UC-TMN 5,2 - 0822945



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID, BLUEMARK ID COLOR, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: Plug in, for terminal block width: 5.2 mm, lettering field size: 3.97 x 4.6 mm

#### Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

#### Test socket

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



Female test connector, color: silver

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



Female test connector, color: silver

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