

MT 1,5 - Micro terminal



3100305

<https://www.phoenixcontact.com/pc/products/3100305>

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Micro terminal, nom. voltage: 400 V, nominal current: 17.5 A, number of connections: 2, connection method: Screw connection, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 15, color: gray

Your advantages

- Nominal cross section of 1.5 mm²
- Design width of just 4.2 mm
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Clear arrangement thanks to marking of all terminal points
- Snap-on foot for NS 15 DIN rails
- Easy potential distribution thanks to standardized screw bridges in the terminal center

Commercial data

Item number	3100305
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	BE1261
GTIN	4017918099251
Weight per piece (including packing)	2.295 g
Weight per piece (excluding packing)	2.283 g
Customs tariff number	85369010
Country of origin	TR

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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	4 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	2
Nominal cross section	1.5 mm ²
Screw thread	M2
Tightening torque	0.22 ... 0.25 Nm
Stripping length	6 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 0.75 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 0.75 mm ²
2 conductors with same cross section, solid	0.14 mm ² ... 0.5 mm ²
2 conductors with same cross section, flexible	0.14 mm ² ... 0.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.34 mm ²
Nominal current	17.5 A
Maximum load current	17.5 A (with 1.5 mm ² conductor cross section)
Nominal voltage	400 V
Nominal cross section	1.5 mm ²

Dimensions

Width	4.2 mm
End cover width	1 mm
Height	22 mm
Depth on NS 15	23.5 mm

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Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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
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

Electrical tests

Surge voltage test

Test voltage setpoint	4.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 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

Attachment on the carrier

DIN rail/fixing support	NS 15
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
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 (operation)	20 % ... 90 %
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/3100305>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	300 V	15 A	28 - 14	-

 EAC Approval ID: KZ7500651131219505				
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 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	15 A	30 - 14	-
Use group F				
	400 V	15 A	30 - 14	-
Use group D				
	300 V	10 A	30 - 14	-

CCA Approval ID: NTR-NL 4240				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	400 V	-	-	- 1.5

 LR Approval ID: LR2041789TA-02				
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 BV Approval ID: 07774/E0 BV				
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DNV Approval ID: TAE00001CT				
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Classifications

ECLASS

ECLASS-13.0	27250101
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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
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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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Accessories



Note: Applying some accessories below might limit this product.

FBRN 2-4 N - Fixed bridge

3001543

<https://www.phoenixcontact.com/pc/products/3001543>



Fixed bridge, number of positions: 2, color: silver-colored



Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 3-4 N - Fixed bridge

3001556

<https://www.phoenixcontact.com/pc/products/3001556>



Fixed bridge, number of positions: 3, color: silver-colored



Max. current carrying capacity: 12 A

Fingers are protected from contact

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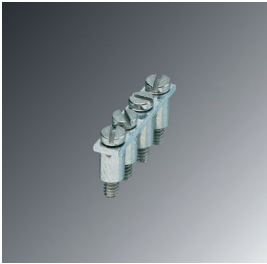
<https://www.phoenixcontact.com/pc/products/3100305>



FBRN 4-4 N - Fixed bridge

3001569

<https://www.phoenixcontact.com/pc/products/3001569>



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

 Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 5-4 N - Fixed bridge

3001572

<https://www.phoenixcontact.com/pc/products/3001572>



Fixed bridge, number of positions: 5, color: silver-colored

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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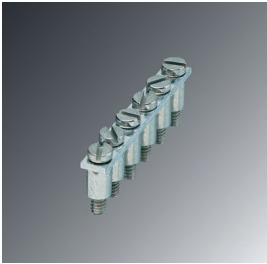
<https://www.phoenixcontact.com/pc/products/3100305>



FBRN 6-4 N - Fixed bridge

3001585

<https://www.phoenixcontact.com/pc/products/3001585>



Fixed bridge, number of positions: 6, color: silver-colored

 Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 7-4 N - Fixed bridge

3001598

<https://www.phoenixcontact.com/pc/products/3001598>



Fixed bridge, number of positions: 7, color: silver-colored

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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FBRN 8-4 N - Fixed bridge

3001608

<https://www.phoenixcontact.com/pc/products/3001608>

Fixed bridge, pitch: 4 mm, number of positions: 8, color: silver-colored



 Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 10-4 N - Fixed bridge

3001624

<https://www.phoenixcontact.com/pc/products/3001624>

Fixed bridge, pitch: 4.2 mm, number of positions: 10, color: silver-colored



 Max. current carrying capacity: 12 A

Fingers are protected from contact

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FBRN 20-4 N - Fixed bridge

3001637

<https://www.phoenixcontact.com/pc/products/3001637>



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

 Max. current carrying capacity: 12 A

Fingers are protected from contact

D-MT 1,5 - End cover

3100321

<https://www.phoenixcontact.com/pc/products/3100321>



End cover, depth: 17.7 mm, width: 1 mm, height: 22 mm, color: gray

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

1401695

<https://www.phoenixcontact.com/pc/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-colored

NS 15 PERF 2000MM VPE 10 - DIN rail perforated

1401682

<https://www.phoenixcontact.com/pc/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-colored

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

1401763

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



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

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

1204096

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



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

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ZBF 4:UNBEDRUCKT - Zack Marker strip, flat

0808587

<https://www.phoenixcontact.com/pc/products/0808587>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.2 mm, text field width: 4.2 mm

ZBF 4 CUS - Zack Marker strip, flat

0825023

<https://www.phoenixcontact.com/pc/products/0825023>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 4.2 mm, Number of individual labels: 10, text field height: 5.2 mm, text field width: 4.2 mm

MT 1,5 - Micro terminal

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ZBF 4,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0808626

<https://www.phoenixcontact.com/pc/products/0808626>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.2 mm, text field width: 4.2 mm

ZBF 4,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0808820

<https://www.phoenixcontact.com/pc/products/0808820>



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.2 mm, text field width: 4.2 mm

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ZBF 4,LGS:GERADE ZAHLEN - Zack Marker strip, flat

0810818

<https://www.phoenixcontact.com/pc/products/0810818>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.15 mm, text field width: 4.15 mm

ZBF 4,LGS:UNGERADE ZAHLEN - Zack Marker strip, flat

0810850

<https://www.phoenixcontact.com/pc/products/0810850>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 10, text field height: 5.15 mm, text field width: 4.15 mm

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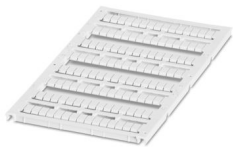
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<https://www.phoenixcontact.com/pc/products/3100305>

UC-TMF 4 - Marker for terminal blocks

0818166

<https://www.phoenixcontact.com/pc/products/0818166>

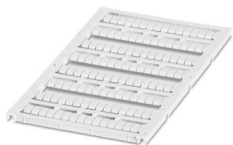


Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 4.2 mm, Number of individual labels: 120, text field height: 5.1 mm, text field width: 3.6 mm

UC-TMF 4 CUS - Marker for terminal blocks

0824630

<https://www.phoenixcontact.com/pc/products/0824630>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 4.2 mm, Number of individual labels: 120, text field height: 5.1 mm, text field width: 3.6 mm

MT 1,5 - Micro terminal

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<https://www.phoenixcontact.com/pc/products/3100305>



UCT-TMF 4 - Marker for terminal blocks

0828742

<https://www.phoenixcontact.com/pc/products/0828742>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME 2.0, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, TOPMARK NEO, TOPMARK LASER, mounting type: latching, for terminal block width: 4.2 mm, Number of individual labels: 90, text field height: 4.7 mm, text field width: 3.4 mm

UCT-TMF 4 CUS - Marker for terminal blocks

0829651

<https://www.phoenixcontact.com/pc/products/0829651>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 4.2 mm, Number of individual labels: 90, text field height: 4.7 mm, text field width: 3.4 mm

MT 1,5 - Micro terminal

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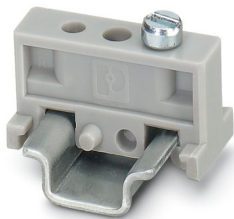
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E/MBK - End bracket

1401637

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



End clamp, width: 6.2 mm, color: gray

E/MK - End bracket

1421633

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



End clamp, width: 6.2 mm, color: gray

MT 1,5 - Micro terminal

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<https://www.phoenixcontact.com/pc/products/3100305>

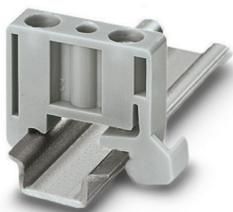


E/MK 1 - End bracket

1421659

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

End clamp width: 6 mm, color: gray



CLIPFIX 15 - End bracket

3022263

<https://www.phoenixcontact.com/pc/products/3022263>

Snap-on end bracket, to be snapped onto NS 15 DIN rail



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SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/pc/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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