

MT 1,5 - Micro terminal

3100305

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



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.



Micro terminal, nom. voltage: 400 V, nominal current: 17.5 A, number of connections: 2, connection method: Screw connection, 1 level, 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
Sales key	BE12
Product key	BE1261
Catalog page	Page 553 (C-1-2019)
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

MT 1,5 - Micro terminal



3100305

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

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

1 level

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

MT 1,5 - Micro terminal



3100305

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

Depth on NS 15	23.5 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	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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
-----------------	-----

Mechanical tests

Mechanical strength

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

Attachment on the carrier

DIN rail/fixing support	NS 15
-------------------------	-------

MT 1,5 - Micro terminal



3100305

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

Test force setpoint	1 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm ² / 0.2 kg
	0.5 mm ² / 0.3 kg
	1.5 mm ² / 0.4 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Ambient conditions

Ambient temperature (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, no longer than 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
----------------------------------	---------------

Mounting

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

MT 1,5 - Micro terminal

3100305

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



Drawings

Circuit diagram



MT 1,5 - Micro terminal

3100305

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



Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3100305>

DNV

Approval ID: TAE00001CT



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: 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	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



BV

Approval ID: 07774/E0 BV



EAC Ex

Approval ID: RU C-DE.HA91.B.00066

MT 1,5 - Micro terminal

3100305

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



Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
----------	----------

UNSPSC

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

MT 1,5 - Micro terminal

3100305

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



Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%

MT 1,5 - Micro terminal

3100305

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



Accessories



Note: Applying some accessories below might limit this product.

FBRN 2-4 N - Fixed bridge

3001543

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



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



Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 3-4 N - Fixed bridge

3001556

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



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



Max. current carrying capacity: 12 A

Fingers are protected from contact

MT 1,5 - Micro terminal

3100305

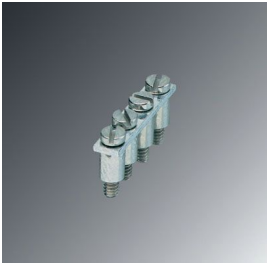
<https://www.phoenixcontact.com/us/products/3100305>



FBRN 4-4 N - Fixed bridge

3001569

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



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

 Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 5-4 N - Fixed bridge

3001572

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



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

 Max. current carrying capacity: 12 A

Fingers are protected from contact

MT 1,5 - Micro terminal

3100305

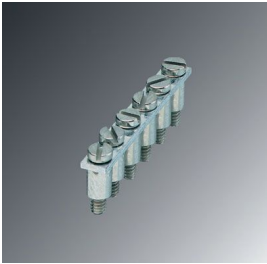
<https://www.phoenixcontact.com/us/products/3100305>



FBRN 6-4 N - Fixed bridge

3001585

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



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

 Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 7-4 N - Fixed bridge

3001598

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



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

 Max. current carrying capacity: 12 A

Fingers are protected from contact

MT 1,5 - Micro terminal

3100305

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



FBRN 8-4 N - Fixed bridge

3001608

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

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



 Max. current carrying capacity: 12 A

Fingers are protected from contact

FBRN 10-4 N - Fixed bridge

3001624

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

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



 Max. current carrying capacity: 12 A

Fingers are protected from contact

MT 1,5 - Micro terminal

3100305

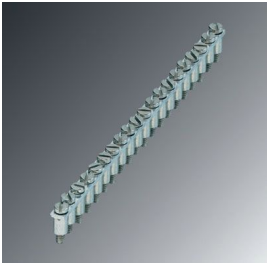
<https://www.phoenixcontact.com/us/products/3100305>



FBRN 20-4 N - Fixed bridge

3001637

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



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

 Max. current carrying capacity: 12 A

Fingers are protected from contact

D-MT 1,5 - End cover

3100321

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



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

MT 1,5 - Micro terminal

3100305

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



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

1401695

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

MT 1,5 - Micro terminal

3100305

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



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

1401763

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



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

MT 1,5 - Micro terminal

3100305

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



ZBF 4:UNBEDRUCKT - Zack Marker strip, flat

0808587

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



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

ZBF 4 CUS - Zack Marker strip, flat

0825023

<https://www.phoenixcontact.com/us/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, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

MT 1,5 - Micro terminal

3100305

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



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

0808626

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



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

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

0808820

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



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

MT 1,5 - Micro terminal

3100305

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



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

0810818

<https://www.phoenixcontact.com/us/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: snapped, for terminal block width: 4 mm, lettering field size: 5.15 x 4.15 mm, Number of individual labels: 10

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

0810850

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



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

MT 1,5 - Micro terminal



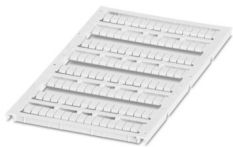
3100305

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

UC-TMF 4 - Marker for terminal blocks

0818166

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

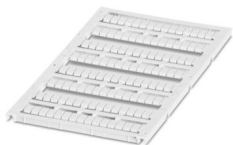


Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 4.2 mm, lettering field size: 3.6 x 5.1 mm, Number of individual labels: 120

UC-TMF 4 CUS - Marker for terminal blocks

0824630

<https://www.phoenixcontact.com/us/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, lettering field size: 3.6 x 5.1 mm, Number of individual labels: 120

MT 1,5 - Micro terminal

3100305

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



UCT-TMF 4 - Marker for terminal blocks

0828742

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



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: 4.2 mm, lettering field size: 3.4 x 4.7 mm, Number of individual labels: 90

UCT-TMF 4 CUS - Marker for terminal blocks

0829651

<https://www.phoenixcontact.com/us/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, lettering field size: 3.4 x 4.7 mm, Number of individual labels: 90

MT 1,5 - Micro terminal

3100305

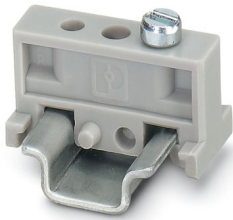
<https://www.phoenixcontact.com/us/products/3100305>



E/MBK - End bracket

1401637

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



End clamp, width: 6.2 mm, color: gray

E/MK - End bracket

1421633

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



End clamp, width: 6.2 mm, color: gray

MT 1,5 - Micro terminal

3100305

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

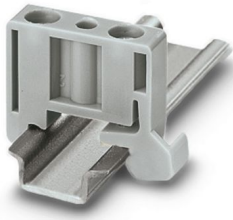


E/MK 1 - End bracket

1421659

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

End clamp width: 6 mm, color: gray



CLIPFIX 15 - End bracket

3022263

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

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



MT 1,5 - Micro terminal

3100305

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



SZS 0,4X2,5 VDE - Screwdriver

1205037

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



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

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com