

Micro terminal - MT 1,5

3100305

<https://www.phoenixcontact.com/de/produkte/3100305>



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Micro terminal, nom. voltage: 400 V, nominal current: 17.5 A, 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

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Commercial Data

Item number	3100305
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	A1 - Reihenklennen
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

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Technical Data

Product properties

Product type	Micro 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
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 16
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 16
Flexible conductor cross section flexible (ferrule, w/o 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 NS 15	23.5 mm

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Height	0.925 "
Length	22 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 \leq 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

Mechanical strength

Result	Test passed
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Attachment on the carrier

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DIN rail/fixing support	NS 15
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 ... 105 °C (max. short-term operating temperature 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 (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

DNV Approval ID: TAE00001CT				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			-	-

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				
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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				
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BV Approval ID: 07774/E0 BV				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			-	-

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

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Classifications

ECLASS

ECLASS-9.0	27141120
ECLASS-10.0.1	27141120
ECLASS-11.0	27141120

ETIM

ETIM 8.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

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

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Accessories

 Note: Applying some accessories below might limit this product.


Fixed bridge

Fixed bridge - FBRN 2-4 N - 3001543

<https://www.phoenixcontact.com/de/produkte/3001543>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact


Fixed bridge

Fixed bridge - FBRN 3-4 N - 3001556

<https://www.phoenixcontact.com/de/produkte/3001556>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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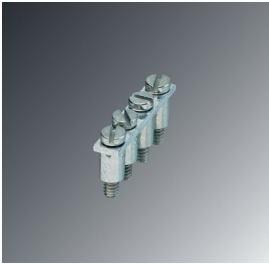
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<https://www.phoenixcontact.com/de/produkte/3100305>


Fixed bridge

Fixed bridge - FBRN 4-4 N - 3001569

<https://www.phoenixcontact.com/de/produkte/3001569>



Fixed bridge, pitch: 4 mm, color: silver

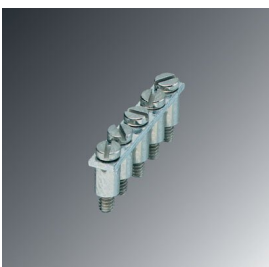
 Max. current carrying capacity: 12 A

Fingers are protected from contact


Fixed bridge

Fixed bridge - FBRN 5-4 N - 3001572

<https://www.phoenixcontact.com/de/produkte/3001572>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

Micro terminal - MT 1,5

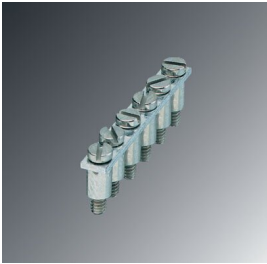
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<https://www.phoenixcontact.com/de/produkte/3100305>

Fixed bridge

Fixed bridge - FBRN 6-4 N - 3001585

<https://www.phoenixcontact.com/de/produkte/3001585>



Fixed bridge, color: silver

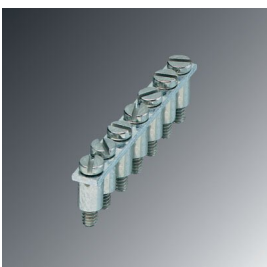
 Max. current carrying capacity: 12 A

Fingers are protected from contact


Fixed bridge

Fixed bridge - FBRN 7-4 N - 3001598

<https://www.phoenixcontact.com/de/produkte/3001598>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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<https://www.phoenixcontact.com/de/produkte/3100305>

Fixed bridge

Fixed bridge - FBRN 8-4 N - 3001608

<https://www.phoenixcontact.com/de/produkte/3001608>



Fixed bridge, pitch: 4 mm, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact


Fixed bridge

Fixed bridge - FBRN 10-4 N - 3001624

<https://www.phoenixcontact.com/de/produkte/3001624>



Fixed bridge, pitch: 4.2 mm, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

Micro terminal - MT 1,5

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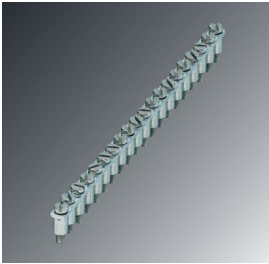
<https://www.phoenixcontact.com/de/produkte/3100305>



Fixed bridge

Fixed bridge - FBRN 20-4 N - 3001637

<https://www.phoenixcontact.com/de/produkte/3001637>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

End cover

End cover - D-MT 1,5 - 3100321

<https://www.phoenixcontact.com/de/produkte/3100321>



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

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DIN rail, unperforated

DIN rail, unperforated - NS 15 UNPERF 2000MM VPE 10 - 1401695

<https://www.phoenixcontact.com/de/produkte/1401695>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 10 (20 m)

Screwdriver

Screwdriver - SZS 0,4X2,5 VDE - 1205037

<https://www.phoenixcontact.com/de/produkte/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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<https://www.phoenixcontact.com/de/produkte/3100305>



DIN rail perforated

DIN rail perforated - NS 15 PERF 2000MM VPE 10 - 1401682

<https://www.phoenixcontact.com/de/produkte/1401682>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 10 (20 m)

DIN rail perforated

DIN rail perforated - NS 15 AL PERF 2000MM VPE 10 - 1401763

<https://www.phoenixcontact.com/de/produkte/1401763>



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

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<https://www.phoenixcontact.com/de/produkte/3100305>



DIN rail perforated

DIN rail perforated - NS 15 WH PERF 2000MM-VPE 10 - 1204096

<https://www.phoenixcontact.com/de/produkte/1204096>



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

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4:UNBEDRUCKT - 0808587

<https://www.phoenixcontact.com/de/produkte/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

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Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4 CUS - 0825023

<https://www.phoenixcontact.com/de/produkte/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

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,LGS:FORTL.ZAHLEN - 0808626

<https://www.phoenixcontact.com/de/produkte/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

Micro terminal - MT 1,5

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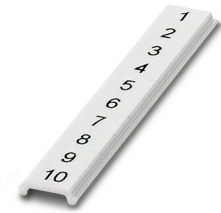
<https://www.phoenixcontact.com/de/produkte/3100305>



Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,QR:FORTL.ZAHLEN - 0808820

<https://www.phoenixcontact.com/de/produkte/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

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,LGS:GERADE ZAHLEN - 0810818

<https://www.phoenixcontact.com/de/produkte/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

Micro terminal - MT 1,5

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<https://www.phoenixcontact.com/de/produkte/3100305>



Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,LGS:UNGERADE ZAHLEN - 0810850

<https://www.phoenixcontact.com/de/produkte/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

Marker for terminal blocks

Marker for terminal blocks - UC-TMF 4 - 0818166

<https://www.phoenixcontact.com/de/produkte/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

Micro terminal - MT 1,5

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<https://www.phoenixcontact.com/de/produkte/3100305>



Marker for terminal blocks

Marker for terminal blocks - UC-TMF 4 CUS - 0824630

<https://www.phoenixcontact.com/de/produkte/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

Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 4 - 0828742

<https://www.phoenixcontact.com/de/produkte/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

Micro terminal - MT 1,5

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<https://www.phoenixcontact.com/de/produkte/3100305>

Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 4 CUS - 0829651

<https://www.phoenixcontact.com/de/produkte/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

End clamp

End clamp - E/MBK - 1401637

<https://www.phoenixcontact.com/de/produkte/1401637>



End clamp, width: 6.2 mm, color: gray

Micro terminal - MT 1,5

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<https://www.phoenixcontact.com/de/produkte/3100305>

End clamp

End clamp - E/MK - 1421633

<https://www.phoenixcontact.com/de/produkte/1421633>

End clamp, width: 6.2 mm, color: gray

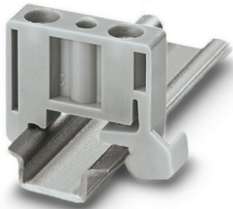


End clamp

End clamp - E/MK 1 - 1421659

<https://www.phoenixcontact.com/de/produkte/1421659>

End clamp width: 6 mm, color: gray



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<https://www.phoenixcontact.com/de/produkte/3100305>



End clamp

End clamp - CLIPFIX 15 - 3022263

<https://www.phoenixcontact.com/de/produkte/3022263>

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



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