1413036

https://www.phoenixcontact.com/us/products/1413036

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.



Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Screw connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting type: NS 15, color: gray

Your advantages

- · Separating disks, partition plates, and test sockets complete the range of accessories
- · 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

Commercial data

Item number	1413036
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1261
Catalog page	Page 517 (CL1-2011)
GTIN	4017918021115
Weight per piece (including packing)	4.806 g
Weight per piece (excluding packing)	4.407 g
Customs tariff number	85369010
Country of origin	IN

PHŒN

1413036

https://www.phoenixcontact.com/us/products/1413036

Technical data

Product type	Miniature terminal block
Number of connections	2
Number of rows	1
Potentials	1
sulation characteristics	
Overvoltage category	III
Degree of pollution	3
ctrical properties	
Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W
nection data	
Number of connections per level	2
Nominal cross section	2.5 mm ²
level	
Screw thread	М3
Tightening torque	0.6 0.8 Nm
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 4 mm²
Cross section AWG	24 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section, flexible [AWG]	24 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 1.5 mm²
Cross-section with insertion bridge, rigid	2.5 mm ²
Cross-section with insertion bridge, flexible	2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² 1 mm ²
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²
Nominal current	24 A
Maximum load current	32 A (with 4 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	2.5 mm²

PHŒNIX CONTACT



1413036

https://www.phoenixcontact.com/us/products/1413036

Ex data

dentification	II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C 105 °C
Ex-certified accessories	1415021 D-MBK/E
	1205053 SZS 0,6X3,5
	1421633 E/MK
List of bridges	Fixed bridge / FBRI 2-5 N / 3000227
	Fixed bridge / FBRI 3-5 N / 3000201
	Fixed bridge / FBRI 5-5 N / 3000188
	Fixed bridge / FBRI 6-5 N / 3000256
	Fixed bridge / FBRI 10-5 N / 2770642
	Fixed bridge / FBRI 20-5 N / 3000515
Bridge data	22 A / 2.5 mm ²
Ex temperature increase	40 K (23.1 A / 2.5 mm²)
Rated voltage	275 V
for bridging with bridge	250 V
- At bridging between non-adjacent terminal blocks	176 V
Rated insulation voltage	250 V
output	(Permanent)
level General	
Rated current	21 A
Maximum load current	27.5 A
Contact resistance	0.5 mΩ
connection data General	
Torque range	0.6 Nm 0.8 Nm
Nominal cross section	2.5 mm ²
Rated cross section AWG	14
Connection capacity rigid	0.2 mm ² 4 mm ²
Connection capacity AWG	24 12
Connection capacity flexible	0.2 mm ² 2.5 mm ²
Connection capacity AWG	24 14
2 conductors with same cross section, solid	0.2 mm ² 1.5 mm ²
2 conductors with the same cross-section AWG rigid	24 16
2 conductors with same cross section, stranded	0.2 mm ² 1.5 mm ²
2 conductors with the same cross-section AWG flexible	24 16

Dimensions

Width	5.2 mm
End cover width	1 mm

Material specifications



1413036

https://www.phoenixcontact.com/us/products/1413036

Color	gray
Flammability rating according to UL 94	V2
Insulating material group	1
Insulating material	PA
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

Electrical tests

Surge voltage test	
Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm ²	0.3 kA
Short-time withstand current 4 mm ²	0.48 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
Test force setpoint	1 N
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

Environmental and real-life conditions



1413036

https://www.phoenixcontact.com/us/products/1413036

Needle-flame test	
Time of exposure	30 s
Result	Test passed
Ambient conditions	
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
Mounting	
Mounting type	NS 15

1413036 https://www.phoenixcontact.com/us/products/1413036

Drawings

Circuit diagram



PHENIX



1413036

https://www.phoenixcontact.com/us/products/1413036

Approvals

№ To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1413036

CULus Recogniz Approval ID: E60425				
	Nominal voltage U _N	Nominal current I_N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	20 A	28 - 12	-
Use group C				
	300 V	20 A	28 - 12	-
Use group F				
	500 V	20 A	28 - 12	-
Use group D				
	600 V	5 A	28 - 12	-



ATEX Approval ID: KEMA 01ATEX2134U



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



IECEX Approval ID: IECEx KEM 07.0008U



CCC Approval ID: 2020322313000629

1413036

https://www.phoenixcontact.com/us/products/1413036



Classifications

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
E٦	IM	
	ETIM 8.0	EC000897
U	NSPSC	
	UNSPSC 21.0	39121400

1413036

https://www.phoenixcontact.com/us/products/1413036

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

PHŒNIX CONTACT



https://www.phoenixcontact.com/us/products/1413036

Accessories



Note: Applying some accessories below might limit this product.

FBRI 10-5 N - Fixed bridge

2770642 https://www.phoenixcontact.com/us/products/2770642



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

1 Max. current carrying capacity: 24 A

EBL 10- 5 - Insertion bridge

2303132

https://www.phoenixcontact.com/us/products/2303132

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



1 Max. current carrying capacity: 24 A

HŒR

1413036

https://www.phoenixcontact.com/us/products/1413036



SBRN 2-7 - Switching jumper

1413230

https://www.phoenixcontact.com/us/products/1413230



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

Max. current carrying capacity: 24 A

FBRI 2-5 N - Fixed bridge

3000227 https://www.phoenixcontact.com/us/products/3000227



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

1413036

https://www.phoenixcontact.com/us/products/1413036



FBRI 3-5 N - Fixed bridge

3000201

https://www.phoenixcontact.com/us/products/3000201



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

FBRI 4-5 N - Fixed bridge

3000191 https://www.phoenixcontact.com/us/products/3000191

1 Max. current carrying capacity: 24 A



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

1413036

https://www.phoenixcontact.com/us/products/1413036



FBRI 5-5 N - Fixed bridge

3000188

https://www.phoenixcontact.com/us/products/3000188



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

Max. current carrying capacity: 24 A

FBRI 6-5 N - Fixed bridge

3000256

https://www.phoenixcontact.com/us/products/3000256



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

1413036

https://www.phoenixcontact.com/us/products/1413036



FBRI 7-5 N - Fixed bridge

3000269

https://www.phoenixcontact.com/us/products/3000269



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

Max. current carrying capacity: 24 A

FBRI 8-5 N - Fixed bridge

3000272 https://www.phoenixcontact.com/us/products/3000272



Fixed bridge, number of positions: 8, color: silver

1413036

https://www.phoenixcontact.com/us/products/1413036



FBRI 9-5 N - Fixed bridge

3000285

https://www.phoenixcontact.com/us/products/3000285



Fixed bridge, number of positions: 9, color: silver

Max. current carrying capacity: 24 A

FBRI 12-5 N - Fixed bridge

3000434 https://www.phoenixcontact.com/us/products/3000434



Fixed bridge, number of positions: 12, color: silver

1413036

https://www.phoenixcontact.com/us/products/1413036



FBRI 16-5 N - Fixed bridge

3000476

https://www.phoenixcontact.com/us/products/3000476



Fixed bridge, number of positions: 16, color: silver

1 Max. current carrying capacity: 24 A

FBRI 20-5 N - Fixed bridge

3000515 https://www.phoenixcontact.com/us/products/3000515



Fixed bridge, pitch: 5 mm, number of positions: 20, color: silver

1413036

https://www.phoenixcontact.com/us/products/1413036



FBRI 40-5 N - Fixed bridge

3006823

https://www.phoenixcontact.com/us/products/3006823



Fixed bridge, number of positions: 40, color: silver

1 Max. current carrying capacity: 24 A

D-MBK/E - End cover

1415021 https://www.phoenixcontact.com/us/products/1415021



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

1413036

https://www.phoenixcontact.com/us/products/1413036



FB-150 METER - Fixed bridge

0201595

https://www.phoenixcontact.com/us/products/0201595



Cross connection rail, for fixed bridging of identical inputs and outputs, made of Cu, nickel-plated, 1 m long $% \left({\frac{{{\left[{{{\rm{T}}_{\rm{T}}} \right]}}{{\left[{{\rm{T}}_{\rm{T}}} \right]}}} \right)$

RPS - Reducing plug

0201647 https://www.phoenixcontact.com/us/products/0201647



Reducing plug, number of positions: 1, color: gray

1413036

https://www.phoenixcontact.com/us/products/1413036



TS-KK 3 - Separating plate

2770215

https://www.phoenixcontact.com/us/products/2770215



Separating plate, depth: 16 mm, width: 0.5 mm, height: 14 mm, color: gray

ATP-MBK - Partition plate

1413227 https://www.phoenixcontact.com/us/products/1413227



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

1413036

https://www.phoenixcontact.com/us/products/1413036



SBS 5:UNBEDRUCKT - Marker card

1007219

https://www.phoenixcontact.com/us/products/1007219



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, perforated, mounting type: snap into tall marker groove, snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 6 x 5.1 mm, Number of individual labels: 250

SZS 0,6X3,5 - Screwdriver

1205053 https://www.phoenixcontact.com/us/products/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

1413036

https://www.phoenixcontact.com/us/products/1413036

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

1413036

https://www.phoenixcontact.com/us/products/1413036

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

HŒR

1413036

https://www.phoenixcontact.com/us/products/1413036

PHŒNIX CONTACT

ZB 5 : UNBEDRUCKT - Zack marker strip

1050004

https://www.phoenixcontact.com/us/products/1050004



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: $5.1 \times 10.5 \text{ mm}$, Number of individual labels: 10

ZB 5 CUS - Zack marker strip

0824962 https://www.phoenixcontact.com/us/products/0824962



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: $5.15 \times 10.5 \text{ mm}$, Number of individual labels: 10

1413036

https://www.phoenixcontact.com/us/products/1413036



ZB 5,LGS:FORTL.ZAHLEN - Zack marker strip

1050017

https://www.phoenixcontact.com/us/products/1050017



Zack marker strip, Strip, white, labeled, printed horizontally: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 491 \dots 500, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm, Number of individual labels: 10

ZB 5,QR:FORTL.ZAHLEN - Zack marker strip

1050020 https://www.phoenixcontact.com/us/products/1050020



Zack marker strip, white, Printed vertically: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 491 \dots 500, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm

1413036

https://www.phoenixcontact.com/us/products/1413036



ZB 5,LGS:GLEICHE ZAHLEN - Zack marker strip

1050033

https://www.phoenixcontact.com/us/products/1050033



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm, Number of individual labels: 10

ZB 5,LGS:L1-N,PE - Zack marker strip

1050415 https://www.phoenixcontact.com/us/products/1050415



Zack marker strip, Strip, white, labeled, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm, Number of individual labels: 10

1413036

https://www.phoenixcontact.com/us/products/1413036

UC-TM 5 - Marker for terminal blocks

0818108

https://www.phoenixcontact.com/us/products/0818108



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: 5.2 mm, lettering field size: 4.6 x 10.5 mm, Number of individual labels: 96

UC-TM 5 CUS - Marker for terminal blocks

0824581 https://www.phoenixcontact.com/us/products/0824581



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: 10.5 x 4.6 mm, Number of individual labels: 96

HQEN

1413036

https://www.phoenixcontact.com/us/products/1413036

UCT-TM 5 - Marker for terminal blocks

0828734

https://www.phoenixcontact.com/us/products/0828734



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: 5.2 mm, lettering field size: 4.6 x 10.5 mm, Number of individual labels: 72

UCT-TM 5 CUS - Marker for terminal blocks

0829595

https://www.phoenixcontact.com/us/products/0829595



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 10.5 mm, Number of individual labels: 72

HŒR

1413036

https://www.phoenixcontact.com/us/products/1413036

GBS 5-25X12 - Group marker label for terminal marking

0810588

https://www.phoenixcontact.com/us/products/0810588



Group marker label, snaps onto terminal center for screw, spring-cage and quick connection terminal blocks, labeled with a 25 x 12 mm label or manually with the B-STIFT, in the foot part with ZB 5

GBS 5-25X5 - Group marker label for terminal marking

0829126

https://www.phoenixcontact.com/us/products/0829126



Group marking label, can be snapped into terminal center for screw, spring-cage, push-in, and fast connection terminal blocks, can be labeled with a 24 x 4 mm label or manually using B-STIFT, in the foot part with ZB 5

HŒR

1413036

https://www.phoenixcontact.com/us/products/1413036



STP 5-2-ZB - Marker carriers

3037643

https://www.phoenixcontact.com/us/products/3037643



Marker carriers, snaps into ST 2,5 spring-cage terminal blocks, can be marked with UC-TM 5, UC-TMF 5, UCT-TM 5, UCT-TMF 5, ZB 5, or ZBF 5, gray, unlabeled, mounting type: snapped

E/MBK - End bracket

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



End clamp, width: 6.2 mm, color: gray

1413036

https://www.phoenixcontact.com/us/products/1413036



E/MK - End bracket

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

End clamp, width: 6.2 mm, color: gray



E/MK 1 - End bracket

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



End clamp width: 6 mm, color: gray

1413036

https://www.phoenixcontact.com/us/products/1413036



PSBJ 3/13/4 - Test plug strip

0201304 https://www.phoenixcontact.com/us/products/0201304

Test plug strip, number of positions: 1, color: silver



0601292 https://www.phoenixcontact.com/us/products/0601292



Test plug strip, number of positions: 1, color: silver

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