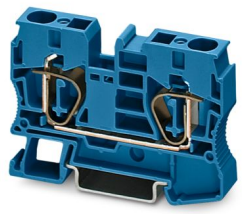
ST 10 BU - Feed-through terminal block

3036123

https://www.phoenixcontact.com/pc/products/3036123

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 2, connection method: Spring-cage connection, Rated cross section: 10 mm^2, 1 level, cross section: 0.2 mm^2 - 16 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

Your advantages

- The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- The double bridge shaft not only enables individual chain bridging, but also reducing bridging to spring-cage terminal blocks with smaller cross sections
- Tested for railway applications

Commercial data

Item number	3036123
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	BE2111
GTIN	4017918819071
Weight per piece (including packing)	25.35 g
Weight per piece (excluding packing)	23.7 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Product properties

Product type	Feed-through terminal block
Product family	ST
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.82 W

Connection data

Number of connections per level	2
Nominal cross section	10 mm²

1 level

Connection method	Spring-cage connection
Stripping length	18 mm
Internal cylindrical gage	A6
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.2 mm² ... 16 mm²
Cross section AWG	24 ... 6 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 10 mm²
Conductor cross-section, flexible [AWG]	24 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 10 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 10 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm² ... 2.5 mm²
Nominal current	57 A
Maximum load current	65 A (with 16 mm² conductor cross-section)
Nominal voltage	1000 V
Nominal cross section	10 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 85 °C
Ex-certified accessories	3036644 D-ST 10
	1206612 SZF 3-1,0X5,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-10 / 3005947
	Plug-in bridge / FBS 5-10 / 3005948
Bridge data	53.5 A (10 mm²)
Ex temperature increase	40 K (56.6 A / 10 mm²)
for bridging with bridge	550 V
Rated insulation voltage	500 V
output	(Permanent)

Ex level General

Rated voltage	550 V
Rated current	51 A
Maximum load current	59.5 A
Contact resistance	0.4 mΩ

Ex connection data General

Nominal cross section	10 mm²
Rated cross section AWG	8
Connection capacity rigid	1.5 mm² ... 16 mm²
Connection capacity AWG	16 ... 6
Connection capacity flexible	1.5 mm² ... 10 mm²
Connection capacity AWG	16 ... 8

Dimensions

Width	10.2 mm
End cover width	2.2 mm
Height	71.5 mm
Depth on NS 35/7,5	50.3 mm
Depth on NS 35/15	57.8 mm

Material specifications

Color	blue (RAL 5015)
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	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
	Test passed
Short-time withstand current 10 mm²	1.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 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 35
Test force setpoint	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm² / 0.2 kg
	10 mm² / 2 kg
	16 mm² / 2.9 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

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 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2/Hz$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 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

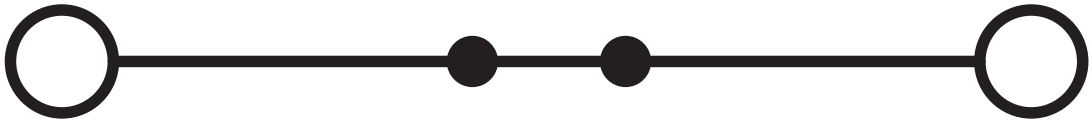
Connection in acc. with standard	IEC 60947-7-1

Mounting

Mounting type	NS 35/7,5
	NS 35/15

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/3036123

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	65 A	16 - 6	-
C				
	600 V	65 A	16 - 6	-

IECEE CB Scheme
Approval ID: DE1-62906

KR
Approval ID: HMB17372-EL002

NK
Approval ID: 09 ME 140

VDE Gutachten mit Fertigungsüberwachung
Approval ID: 40009039

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1000 V	57 A	-	1.5 - 10

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	65 A	16 - 6	-
C				
	600 V	65 A	16 - 6	-
F				
	1000 V	65 A	16 - 6	-

DNV
Approval ID: TAE00001CS

ATEX
Approval ID: KEMA01ATEX2260U

IECEx
Approval ID: IECEx KEM 06.0033U

CCC
Approval ID: 2020322313000621

UKCA-EX
Approval ID: DEKRA 21UKEX0303U

EAC Ex
Approval ID: KZ 7500525010101950

Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 9.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

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%

Accessories

Note: Applying some accessories below might limit this product.

FBS 2-10 - Plug-in bridge

3005947

https://www.phoenixcontact.com/pc/products/3005947



Plug-in bridge, pitch: 10.2 mm, number of positions: 2, color: red

Max. current carrying capacity: 50 A

FBS 5-10 - Plug-in bridge

3005948

https://www.phoenixcontact.com/pc/products/3005948



Plug-in bridge, pitch: 10.2 mm, number of positions: 5, color: red

Max. current carrying capacity: 50 A

FBS 5-10 BU - Plug-in bridge

1040620

https://www.phoenixcontact.com/pc/products/1040620



Plug-in bridge, pitch: 10.2 mm, number of positions: 5, color: blue

Max. current carrying capacity: 50 A

RB ST 10-(2,5/4) - Reducing bridge

3030873

https://www.phoenixcontact.com/pc/products/3030873



Reducing bridge, pitch: 10 mm, number of positions: 2, length: 36 mm, color: red

Max. current carrying capacity: 35 A

RB ST 10-1,5/S - Reducing bridge

3213252

https://www.phoenixcontact.com/pc/products/3213252



Reducing bridge, pitch: 3.5 mm, number of positions: 2, length: 36 mm, color: red

Max. current carrying capacity: 24 A

FBS 2-10 GY - Plug-in bridge

1103721

https://www.phoenixcontact.com/pc/products/1103721



Plug-in bridge, pitch: 10.2 mm, number of positions: 2, color: gray

Max. current carrying capacity: 50 A

LPS-10/E - Service connector

3270580

https://www.phoenixcontact.com/pc/products/3270580



Service connector, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, color: red

LPS-10 - Service connector

3270581

https://www.phoenixcontact.com/pc/products/3270581



Service connector, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2 - 4 mm^2, color: red

LPO 10/E - Pick-off plug

3270528

https://www.phoenixcontact.com/pc/products/3270528



Pick-off plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2- 4 mm^2, color: gray

LPO 10 - Pick-off plug

3270529

https://www.phoenixcontact.com/pc/products/3270529



Pick-off plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm^2, cross section: 0.14 mm^2- 4 mm^2, color: gray

D-ST 10 - End cover

3036644

https://www.phoenixcontact.com/pc/products/3036644



End cover, depth: 42.61 mm, width: 2.2 mm, height: 71.5 mm, color: gray

NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

https://www.phoenixcontact.com/pc/products/0801733



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 35/ 7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

https://www.phoenixcontact.com/pc/products/0801681



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver-colored

NS 35/ 7,5 WH PERF 2000MM - DIN rail perforated

1204119

https://www.phoenixcontact.com/pc/products/1204119



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, white passivated, Standard profile, color: silver-colored

NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

https://www.phoenixcontact.com/pc/products/1204122



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

NS 35/ 7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

https://www.phoenixcontact.com/pc/products/0801704



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver-colored

NS 35/ 7,5 ZN PERF 2000MM - DIN rail perforated

1206421

https://www.phoenixcontact.com/pc/products/1206421



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver-colored

NS 35/ 7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

https://www.phoenixcontact.com/pc/products/1206434



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver-colored

NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

https://www.phoenixcontact.com/pc/products/0801762



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

NS 35/ 7,5 CAP - End cap

1206560

https://www.phoenixcontact.com/pc/products/1206560

DIN rail end piece, for DIN rail NS 35/7.5



E/AL-NS 35 - End bracket

1201662

https://www.phoenixcontact.com/pc/products/1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

ZBF10:UNBEDRUCKT - Zack Marker strip, flat

0809997

https://www.phoenixcontact.com/pc/products/0809997



Zack Marker strip, flat, Strip, white, unmarked, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 10 mm, Number of individual labels: 10, text field height: 10 mm, text field width: 5. 15 mm

ZBF10 CUS - Zack Marker strip, flat

0825031

https://www.phoenixcontact.com/pc/products/0825031



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: 10 mm, Number of individual labels: 10, text field height: 10 mm, text field width: 5.15 mm

ZBF10,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0810009

https://www.phoenixcontact.com/pc/products/0810009



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: 10 mm, Number of individual labels: 10, text field height: 10 mm, text field width: 5.15 mm

ZBF10,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0810025

https://www.phoenixcontact.com/pc/products/0810025



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: 10 mm, Number of individual labels: 10, text field height: 10 mm, text field width: 5.15 mm

UC-TMF 10 - Marker for terminal blocks

0818124

https://www.phoenixcontact.com/pc/products/0818124



Marker for terminal blocks, Sheet, white, unmarked, 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: 10.2 mm, Number of individual labels: 48, text field height: 5.1 mm, text field width: 9.6 mm

UC-TMF 10 CUS - Marker for terminal blocks

0824662

https://www.phoenixcontact.com/pc/products/0824662



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: 10.2 mm, Number of individual labels: 48, text field height: 5.1 mm, text field width: 9.6 mm

UCT-TMF 10 - Marker for terminal blocks

0829204

https://www.phoenixcontact.com/pc/products/0829204



Marker for terminal blocks, Sheet, white, unmarked, 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: 10.2 mm, Number of individual labels: 36, text field height: 4.7 mm, text field width: 9.4 mm

UCT-TMF 10 CUS - Marker for terminal blocks

0829679

https://www.phoenixcontact.com/pc/products/0829679



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: 10.2 mm, Number of individual labels: 36, text field height: 4.7 mm, text field width: 9.4 mm

ZB 10:UNBEDRUCKT - Zack marker strip

1053001

https://www.phoenixcontact.com/pc/products/1053001



Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 10.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 10.15 mm

ZB 10 CUS - Zack marker strip

0824941

https://www.phoenixcontact.com/pc/products/0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 10.15 mm

ZB10,LGS:FORTL.ZAHLEN - Zack marker strip

1053014

https://www.phoenixcontact.com/pc/products/1053014



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 10.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 10.15 mm

ZB10,QR:FORTL.ZAHLEN - Zack marker strip

1053027

https://www.phoenixcontact.com/pc/products/1053027



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 10.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 10.15 mm

ZB10,LGS:L1-N,PE - Marker for terminal blocks

1053412

https://www.phoenixcontact.com/pc/products/1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: latching, for terminal block width: 10.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 10.15 mm

ZB10,LGS:U-N - Marker for terminal blocks

1053438

https://www.phoenixcontact.com/pc/products/1053438



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: latching, for terminal block width: 10.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 10.15 mm

UC-TM 10 - Marker for terminal blocks

0818069

https://www.phoenixcontact.com/pc/products/0818069



Marker for terminal blocks, Sheet, white, unmarked, 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: 10.2 mm, Number of individual labels: 48, text field height: 10.5 mm, text field width: 9.6 mm

UC-TM 10 CUS - Marker for terminal blocks

0824605

https://www.phoenixcontact.com/pc/products/0824605



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: 10.2 mm, Number of individual labels: 48, text field height: 10.5 mm, text field width: 9.6 mm

UCT-TM 10 - Marker for terminal blocks

0829142

https://www.phoenixcontact.com/pc/products/0829142



Marker for terminal blocks, Sheet, white, unmarked, 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: 10.2 mm, Number of individual labels: 36, text field height: 9.6 mm, text field width: 8.9 mm

UCT-TM 10 CUS - Marker for terminal blocks

0829623

https://www.phoenixcontact.com/pc/products/0829623



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: 10.2 mm, Number of individual labels: 36, text field height: 9.6 mm, text field width: 8.9 mm

SZF 3-1,0X5,5 - Screwdriver

1206612

https://www.phoenixcontact.com/pc/products/1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

ST 10 BU - Feed-through terminal block

3036123

https://www.phoenixcontact.com/pc/products/3036123

WST 10/35 - Warning cover

3030006

https://www.phoenixcontact.com/pc/products/3030006

Warning cover, 5-pos., for terminal widths of 10.2 mm, 12.2 mm, and 16 mm



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