UT 10-FE - Feed-through terminal block

3047660

https://www.phoenixcontact.com/pc/products/3047660

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 2, connection method: Screw connection, Rated cross section: 10 mm^2, cross section: 0.5 mm^2 - 16 mm^2, mounting type: NS 35/7,5, NS 35/15, color: black/yellow

Your advantages

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts
- The cable entry funnel enables the use of conductors with ferrules and plastic collars within the nominal cross section
- Tested for railway applications

Commercial data

Item number	3047660
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	BE1111
GTIN	4046356762625
Weight per piece (including packing)	17.27 g
Weight per piece (excluding packing)	17.27 g
Customs tariff number	85369010
Country of origin	DE

Technical data

Product properties

Product type	Feed-through terminal block
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

Level 1 above 1 below 1

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	10 mm
Internal cylindrical gage	A6
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm² ... 16 mm²
Cross section AWG	20 ... 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² ... 16 mm²
Conductor cross section, flexible [AWG]	20 ... 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 10 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² ... 10 mm²
2 conductors with same cross section, solid	0.5 mm² ... 4 mm²
2 conductors with same cross section, flexible	0.5 mm² ... 4 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² ... 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 6 mm²
Nominal current	57 A
Maximum load current	76 A (with 16 mm² conductor cross section)
Nominal voltage	1000 V

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Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.
Nominal cross section	10 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	⟨Ex⟩ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3047028 D-UT 2,5/10
	1205066 SZS 1,0X4,0 VDE
	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	54 A / 10 mm²
Ex temperature increase	40 K (60.1 A / 10 mm²)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated current	54 A
Maximum load current	69 A
Contact resistance	0.16 mΩ

Ex connection data General

Torque range	1.5 Nm ... 1.8 Nm
Nominal cross section	10 mm²
Rated cross section AWG	8
Connection capacity rigid	0.5 mm² ... 16 mm²
Connection capacity AWG	20 ... 6
Connection capacity flexible	0.5 mm² ... 10 mm²
Connection capacity AWG	20 ... 8
2 conductors with same cross section, solid	0.5 mm² ... 4 mm²
2 conductors with the same cross-section AWG rigid	20 ... 12
2 conductors with same cross section, stranded	0.5 mm² ... 4 mm²
2 conductors with the same cross-section AWG flexible	20 ... 12

Dimensions

Width	10.2 mm
End cover width	2.2 mm
Height	47.7 mm
Depth	46.9 mm
Depth on NS 35/7,5	47.5 mm

Depth on NS 35/15	55 mm

Material specifications

Color	black/yellow
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))	125 °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)	27,5 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	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

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 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm² / 0.3 kg
	10 mm² / 2 kg
	16 mm² / 2.9 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192

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 ()
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

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Drawings

Circuit diagram
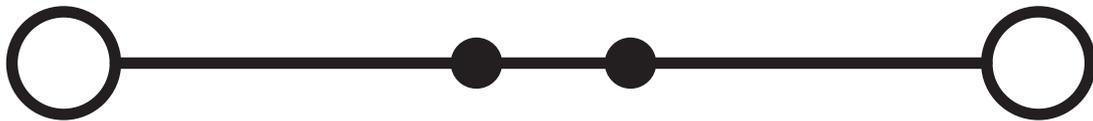
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/3047660

DNV
Approval ID: TAE00001S9

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	600 V	65 A	20 - 6	-
Use group C				
	600 V	65 A	20 - 6	-

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	600 V	65 A	20 - 6	-
Use group C				
	600 V	65 A	20 - 6	-

RS
Approval ID: 22.44.01.00083.250

ATEX
Approval ID: KEMA04ATEX2048U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	690 V	54 A	-	0.5 - 10
Only rigid conductors	690 V	69 A	-	0.5 - 16

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

IECEx
Approval ID: IECEx KEM 06.0027U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	690 V	54 A	-	0.5 - 10

Only rigid conductors	690 V	69 A	-	0.5 - 16

CCC
Approval ID: 2020322313000622

UKCA-EX
Approval ID: DEKRA 21UKEX0304U

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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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: 57 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: 57 A

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https://www.phoenixcontact.com/pc/products/3047660

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: 57 A

RB UT 35-10 - Reducing bridge

3032168

https://www.phoenixcontact.com/pc/products/3032168

Reducing bridge, pitch: 13.2 mm, number of positions: 2, color: red

ⓘ Max. current carrying capacity: 57 A

UT 10-FE - Feed-through terminal block

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https://www.phoenixcontact.com/pc/products/3047660

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

3047060

https://www.phoenixcontact.com/pc/products/3047060

Reducing bridge, pitch: 10.2 mm, number of positions: 2, length: 29 mm, color: red

ⓘ Max. current carrying capacity: 40 A

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

3047086

https://www.phoenixcontact.com/pc/products/3047086

Reducing bridge, pitch: 10.2 mm, number of positions: 2, length: 33 mm, color: red

ⓘ Max. current carrying capacity: 40 A

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AGK 4-UT 10 - Pick-off terminal block

3047112

https://www.phoenixcontact.com/pc/products/3047112

Pick-off terminal block, nom. voltage: 1000 V, nominal current: 32 A, number of connections: 1, connection method: Screw connection, cross section: 0.14 mm^2 - 6 mm^2, mounting type: on base element, color: gray

D-UT 2,5/10 - End cover

3047028

https://www.phoenixcontact.com/pc/products/3047028

End cover, depth: 39.8 mm, width: 2.2 mm, height: 47 mm, color: gray

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ATP-UT - Partition plate

3047167

https://www.phoenixcontact.com/pc/products/3047167

Partition plate, depth: 45.7 mm, width: 2.2 mm, height: 53.4 mm, color: gray

WS UT 10 - Warning label

3047361

https://www.phoenixcontact.com/pc/products/3047361

Warning sign for UT terminal blocks

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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

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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

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

UT 10-FE - Feed-through terminal block

3047660

https://www.phoenixcontact.com/pc/products/3047660

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

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

UT 10-FE - Feed-through terminal block

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https://www.phoenixcontact.com/pc/products/3047660

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

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

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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

NS 35/15 PERF 2000MM - DIN rail perforated

1201730

https://www.phoenixcontact.com/pc/products/1201730

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

UT 10-FE - Feed-through terminal block

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https://www.phoenixcontact.com/pc/products/3047660

NS 35/15 UNPERF 2000MM - DIN rail, unperforated

1201714

https://www.phoenixcontact.com/pc/products/1201714

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

NS 35/15 WH PERF 2000MM - DIN rail perforated

0806602

https://www.phoenixcontact.com/pc/products/0806602

DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white

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NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

https://www.phoenixcontact.com/pc/products/1204135

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

NS 35/15 AL UNPERF 2000MM - DIN rail, unperforated

1201756

https://www.phoenixcontact.com/pc/products/1201756

DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

UT 10-FE - Feed-through terminal block

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NS 35/15 ZN PERF 2000MM - DIN rail perforated

1206599

https://www.phoenixcontact.com/pc/products/1206599

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

NS 35/15 ZN UNPERF 2000MM - DIN rail, unperforated

1206586

https://www.phoenixcontact.com/pc/products/1206586

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

UT 10-FE - Feed-through terminal block

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NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

https://www.phoenixcontact.com/pc/products/1201895

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

NS 35/15 CAP - End cap

1206573

https://www.phoenixcontact.com/pc/products/1206573

DIN rail end piece, for DIN rail NS 35/15

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NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

https://www.phoenixcontact.com/pc/products/1201798

DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver

ZB 10:UNBEDRUCKT - Zack marker strip

1053001

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

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

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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, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

UT 10-FE - Feed-through terminal block

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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: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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

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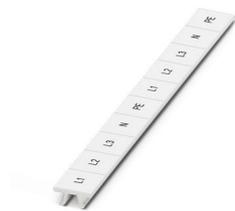
https://www.phoenixcontact.com/pc/products/1053412

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: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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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: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

UC-TM 10 - Marker for terminal blocks

0818069

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

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: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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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, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

UCT-TM 10 - Marker for terminal blocks

0829142

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

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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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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, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

TMT 10 R - Marker for terminal blocks

0816210

https://www.phoenixcontact.com/pc/products/0816210

Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, perforated, mounting type: snapped, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 6.35 x 10.15 mm, Number of individual labels: 10000

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TMT 10 R CUS - Marker for terminal blocks

0824500

https://www.phoenixcontact.com/pc/products/0824500

Marker for terminal blocks, can be ordered: by line, white, labeled according to customer specifications, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 6. 35 x 10.15 mm

SZS 1,0X4,0 VDE - Screwdriver

1205066

https://www.phoenixcontact.com/pc/products/1205066

Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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https://www.phoenixcontact.com/pc/products/3047660

X-PEN 0,35 - Marker pen

0811228

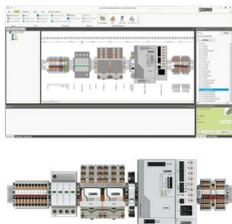https://www.phoenixcontact.com/pc/products/0811228

Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

PROJECT COMPLETE - Software

1050453

https://www.phoenixcontact.com/pc/products/1050453

Intuitive planning and marking software for configuring terminal strips and for professional marking of marking materials for terminal blocks, conductors, cables, devices, and systems. The software is available for download