

1054163

https://www.phoenixcontact.com/us/products/1054163

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Feed-through terminal block, With test socket screws for insertion of test plugs, nom. voltage: 800 V, nominal current: 57 A, number of connections: 2, connection method: Screw connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

### 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
- · Testing facility in the function shaft and in the 2.3 mm test opening
- · Optimum screwdriver guidance through closed screw shafts
- · Tested for railway applications
- The cable entry funnel enables the use of conductors with ferrules and plastic collars within the nominal cross section

#### Commercial data

Item number	1054163
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1111
GTIN	4055626687339
Weight per piece (including packing)	17.747 g
Weight per piece (excluding packing)	17 g
Customs tariff number	85369010
Country of origin	PL



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### Technical data

### Pr

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
ata management status	
Article revision	02
sulation characteristics	
Overvoltage category	III
Degree of pollution	3
Degree of politicon	· ·
ctrical properties	
Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.82 W
nnection data	
Number of connections per level	2
Nominal cross section	10 mm²
evel 1 above 1 below 1	
Screw thread	M4
Tightening torque	1.5 1.8 Nm

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



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Nominal current	57 A
Maximum load current	76 A (with 16 mm² conductor cross section)
Nominal voltage	800 V
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

#### **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	gray
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	8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 10 mm²	1.2 kA
Short-time withstand current 16 mm²	1.92 kA
Result	Test passed

#### Power-frequency withstand voltage

Power-frequency withstand voltage	
Test voltage setpoint	2 kV
Result	Test passed



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#### Mechanical properties

Mechanical	l data
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Open side panel	Yes	
Open side parier	103	

#### 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

#### 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;

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 35/7,5
	NS 35/15



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1054163

CSA Approval ID: 13631				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	600 V	65 A	20 - 6	-
Use group C				
	600 V	65 A	20 - 6	-

EAC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00534

CULus Recognized Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	600 V	65 A	20 - 6	-
Use group C				
	600 V	65 A	20 - 6	-



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27141120	
	ECLASS-13.0	27250101	
	-1A 4		
ΕI	TIM		
	ETIM 8.0	EC000897	
UNSPSC			
	UNSPSC 21.0	39121400	



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### 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)
SCIP	8e4960fc-38b8-4021-9e42-513ee7c3af7c



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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/us/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/us/products/3005948



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

1 Max. current carrying capacity: 57 A



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### FBS 5-10 BU - Plug-in bridge

1040620

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



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

1 Max. current carrying capacity: 57 A



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

3047060

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

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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

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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<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: on base element, color: gray

#### D-UT 2,5/10 - End cover

3047028

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



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

#### WS UT 10 - Warning label

3047361

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Warning sign for UT terminal blocks





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#### MPS-MT - Test plug

0201744

https://www.phoenixcontact.com/us/products/0201744



Test plug, with solder connection up to 1  $\mbox{mm}^2$  conductor cross section, number of positions: 1, color: gray

#### MPS-IH WH - Insulating sleeve

0201663

https://www.phoenixcontact.com/us/products/0201663

Insulating sleeve, color: white





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### LPS-10/E - Service connector

3270580

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



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

#### LPS-10 - Service connector

3270581

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



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



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#### LPO 10/E - Pick-off plug

3270528

https://www.phoenixcontact.com/us/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<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 4 mm<sup>2</sup>, color: gray

#### LPO 10 - Pick-off plug

3270529

https://www.phoenixcontact.com/us/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:  $2.5~\text{mm}^2$ , cross section:  $0.14~\text{mm}^2$ - $4~\text{mm}^2$ , color: gray



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

0801733

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



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



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

0801704

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



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



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

1206434

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

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



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

1201730

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



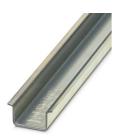
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#### NS 35/15 UNPERF 2000MM - DIN rail, unperforated

1201714

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



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



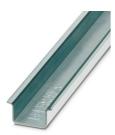
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#### NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

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



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



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

1206599

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



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



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

1201895

https://www.phoenixcontact.com/us/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/us/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/us/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/us/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/us/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/us/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:  $10.15 \times 10.5$  mm, Number of individual labels: 10



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#### ZB10,QR:FORTL.ZAHLEN - Zack marker strip

1053027

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Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1  $\dots$  10, 11  $\dots$  20, etc. up to 91  $\dots$  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/us/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:  $10,15 \times 10,5$  mm, Number of individual labels: 10



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

1053438

https://www.phoenixcontact.com/us/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/us/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:  $9.6 \times 10.5$  mm, Number of individual labels: 48



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#### UC-TM 10 CUS - Marker for terminal blocks

#### 0824605

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



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



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#### X-PEN 0,35 - Marker pen

0811228

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



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness  $0.35\ \mathrm{mm}$ 

#### SZG 0,6X3,5 VDE - Screwdriver

1205121

https://www.phoenixcontact.com/us/products/1205121



Screwdriver, slot-headed, graded, for test socket screws, size:  $0.6 \times 3.5 \times 100$  mm, 2-component grip, with non-slip grip



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#### SF-SL 0,8X4,0-100 S-VDE - Screwdriver

1212588

https://www.phoenixcontact.com/us/products/1212588



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size:  $0.8 \times 4.0 \times 100$  mm, 2-component grip, with non-slip grip

#### PROJECT COMPLETE - Software

1050453

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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

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