SLKK 5 - Double-level terminal block

0461018

https://www.phoenixcontact.com/pc/products/0461018

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Double-level terminal block, nom. voltage: 500 V, nominal current: 30 A, connection method: Screw connection, 1st and 2nd level, Rated cross section: 4 mm^2, cross section: 0.2 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- The FBI 10-6 bridge is used in the upper level to connect the return lines for the external loads and LEDs to a common busbar
- Of advantage for controllers with external actuating drives, solenoid valves, and limit switches
- With two laterally offset feed-through levels and protective conductor connection to the DIN rail which acts as a grounding busbar
- Space-saving and systematic wiring of three-wire cables is therefore possible

Commercial data

Item number	0461018
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	BE1224
GTIN	4017918002381
Weight per piece (including packing)	22.63 g
Weight per piece (excluding packing)	22.52 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Product properties

Product type	Multi-level terminal block
Product family	SLKK
Number of connections	5
Number of rows	3
Potentials	3

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Number of connections per level	2
Nominal cross section	4 mm²

1st and 2nd level

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 4 mm²
Conductor cross-section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 2.5 mm²
Cross-section with insertion bridge, rigid	4 mm²
Cross-section with insertion bridge, flexible	2.5 mm²
2 conductors with same cross section, solid	0.2 mm² ... 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 1.5 mm²
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 ... 1.5 mm²
Nominal current	30 A
Maximum load current	30 A (with 4 mm² conductor cross-section)
Nominal voltage	500 V

Nominal cross section	4 mm²

Dimensions

Width	6.2 mm
End cover width	2.5 mm
Height	66.5 mm
Depth on NS 35/7,5	69.5 mm
Depth on NS 35/15	77 mm

Material specifications

Color	gray (RAL 7042)
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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 4 mm²	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 35
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
	4 mm² / 0.9 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; 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

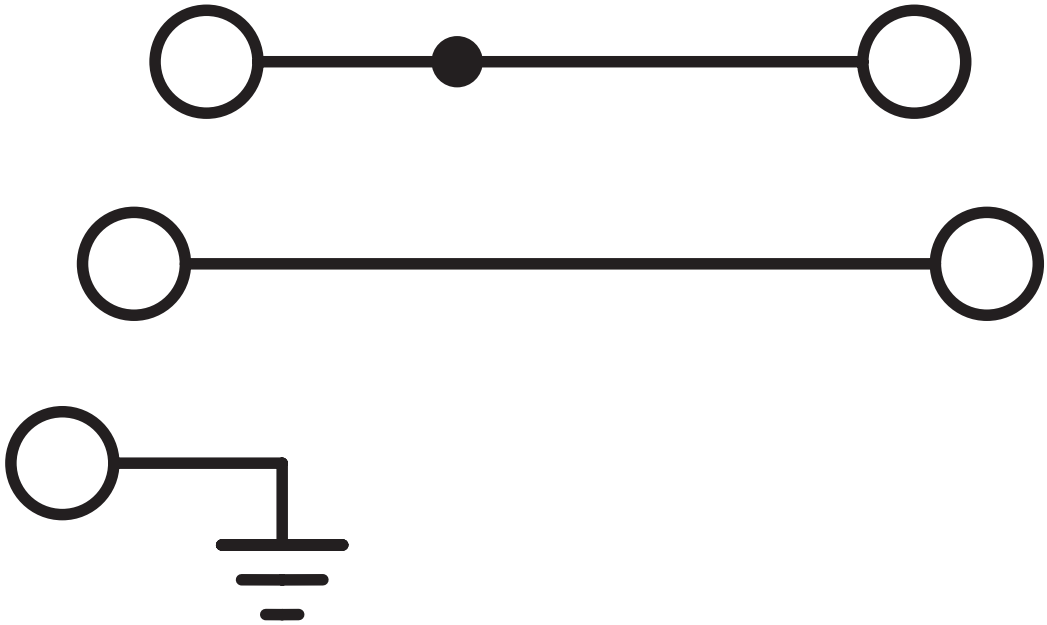
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2

Mounting

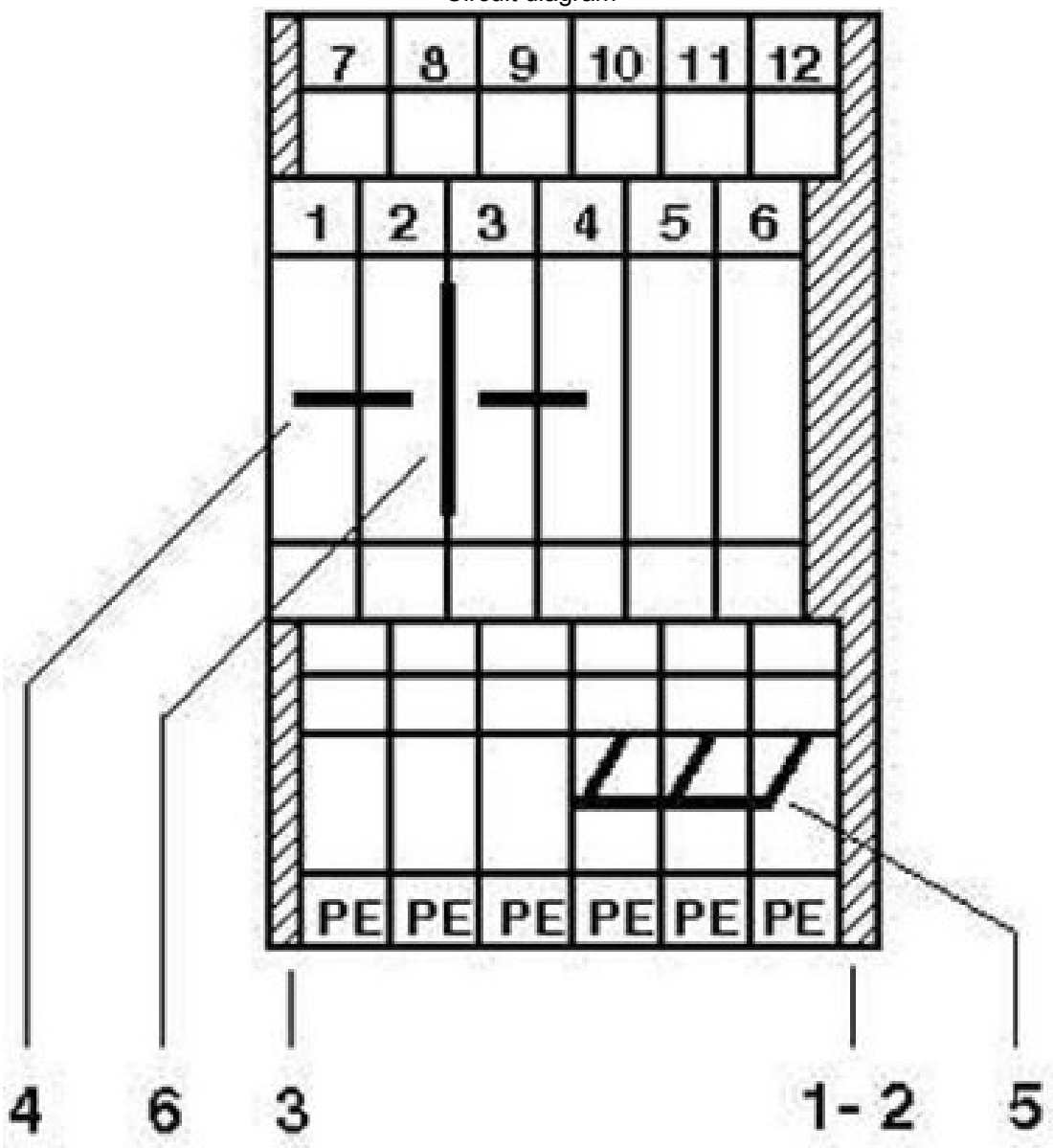
Mounting type	NS 35/7,5
	NS 35/15

Drawings

Circuit diagram



Circuit diagram



1 = cover
2 = spacer cover
3 = spacer plate
4 = fixed bridge
5 = insertion bridge
6 = separating plate

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/0461018

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	300 V	25 A	28 - 12	-
only with cover	600 V	25 A	28 - 12	-

EAC
Approval ID: KZ7500651131219505

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	30 A	26 - 10	-
lower level	-	-	26 - 12	-
C				
	600 V	30 A	26 - 10	-
lower level	-	-	26 - 12	-

Classifications

ECLASS

ECLASS-13.0	27250102
ECLASS-15.0	27250102

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-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.)	No substance above 0.1 wt%

Accessories

Note: Applying some accessories below might limit this product.

IS-K 4 - Bridge bar isolator

1302338

https://www.phoenixcontact.com/pc/products/1302338



Bridge bar isolator, color: gray

ISSBI 10- 6 - Bridge

0301505

https://www.phoenixcontact.com/pc/products/0301505



Bridge, pitch: 6 mm, number of positions: 10, color: silver-colored

LB 10-6 BU - Bridge

0202280

https://www.phoenixcontact.com/pc/products/0202280



Bridge, pitch: 6 mm, number of positions: 10, color: blue

LB 10-6 GY - Bridge

0202358

https://www.phoenixcontact.com/pc/products/0202358



Bridge, pitch: 6 mm, number of positions: 10, color: gray

LB 100-6 GY - Bridge

0202345

https://www.phoenixcontact.com/pc/products/0202345

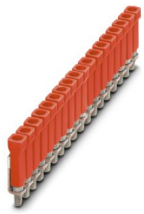


Bridge, pitch: 6 mm, number of positions: 100, color: gray

LB 100-6 RD - Bridge

0202316

https://www.phoenixcontact.com/pc/products/0202316



Bridge, number of positions: 100, color: red

LB 100-6 BU - Bridge

0202303

https://www.phoenixcontact.com/pc/products/0202303



Bridge, number of positions: 100, color: blue

LB 10-6 RD - Bridge

0202293

https://www.phoenixcontact.com/pc/products/0202293



Bridge, pitch: 6 mm, number of positions: 10, color: red

FBI 100- 6 - Fixed bridge

0201650

https://www.phoenixcontact.com/pc/products/0201650



Fixed bridge, pitch: 6.2 mm, number of positions: 100, color: silver-colored

FBI 10- 6 - Fixed bridge

0203250

https://www.phoenixcontact.com/pc/products/0203250



Fixed bridge, pitch: 6.2 mm, number of positions: 10, color: silver-colored

Max. current carrying capacity: 32 A

FBI 20- 6 - Fixed bridge

0201867

https://www.phoenixcontact.com/pc/products/0201867



Fixed bridge, pitch: 6.2 mm, number of positions: 20, color: silver-colored

EB 10- 6 - Insertion bridge

0201139

https://www.phoenixcontact.com/pc/products/0201139



Insertion bridge, pitch: 6.2 mm, number of positions: 10, color: gray

Max. current carrying capacity: 26 A

EB 3- 6 - Insertion bridge

0201142

https://www.phoenixcontact.com/pc/products/0201142

Insertion bridge, pitch: 6.2 mm, number of positions: 3, color: gray



Max. current carrying capacity: 26 A

EB 2- 6 - Insertion bridge

0201155

https://www.phoenixcontact.com/pc/products/0201155

Insertion bridge, pitch: 6.2 mm, number of positions: 2, color: gray



Max. current carrying capacity: 26 A

USBR 2-7 - Bridge bar

2303239

https://www.phoenixcontact.com/pc/products/2303239



Bridge bar, pitch: 7 mm, number of positions: 2, color: silver-colored

USBRJ 2-7 - Bridge bar

2305538

https://www.phoenixcontact.com/pc/products/2305538



Bridge bar, number of positions: 2, color: silver-colored

SBRN 2-7 - Bridge bar

1413230

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



Bridge bar, pitch: 7 mm, number of positions: 2, color: silver-colored

DP-UKK 3/5 - Spacer plate

2770794

https://www.phoenixcontact.com/pc/products/2770794



Spacer plate, to compensate for level offsets, depth: 25 mm, width: 2.5 mm, height: 56 mm, color: gray

DG-UKK 3/5 - Spacer plate

2770817

https://www.phoenixcontact.com/pc/products/2770817



Spacer plate, to compensate for level offsets, depth: 52 mm, width: 2.5 mm, height: 56 mm, color: gray

D-UKK 3/5 - End cover

2770024

https://www.phoenixcontact.com/pc/products/2770024



End cover, depth: 52 mm, width: 2.5 mm, height: 56 mm, color: gray

WS 5- 6 - Warning label

1004403

https://www.phoenixcontact.com/pc/products/1004403

Warning plate, with 2 plastic screws, across 5 terminal blocks, pitch 6 mm



WS 4- 6 - Warning label

1004209

https://www.phoenixcontact.com/pc/products/1004209

Warning plate, with 2 plastic screws, across 4 terminal blocks, pitch 6 mm



WS 3- 6 - Warning label

1004115

https://www.phoenixcontact.com/pc/products/1004115

Warning plate, with 2 plastic screws, across 3 terminal blocks, pitch 6 mm



FB-150 METER - Fixed bridge

0201595

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

Cross connection rail, for fixed bridging of identical inputs and outputs, made of Cu, nickel-plated, 1 m long



KSS 3- 6 - Short-circuit connector

0309523

https://www.phoenixcontact.com/pc/products/0309523



Short-circuit connector, pitch: 6 mm, number of positions: 3, color: black

KSS 6 - Short-circuit connector

0301547

https://www.phoenixcontact.com/pc/products/0301547



Short-circuit connector, pitch: 6 mm, number of positions: 2, color: black

RPS - Reducing plug

0201647

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



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

TS-KK 3 - Separating plate

2770215

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



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

SBS 6:UNBEDRUCKT - Marker card

1007222

https://www.phoenixcontact.com/pc/products/1007222



Marker card, Card, white, unmarked, can be labeled with: Marker pen, mounting type: latching, snap into flat marker groove, for terminal block width: 6 mm, Number of individual labels: 250, text field height: 6 mm, text field width: 6.1 mm

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



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-colored

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-colored

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

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-colored

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-colored

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-colored

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-colored

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



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-colored

ZB 6:UNBEDRUCKT - Zack marker strip

1051003

https://www.phoenixcontact.com/pc/products/1051003



Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6 CUS - Zack marker strip

0824992

https://www.phoenixcontact.com/pc/products/0824992



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:FORTL.ZAHLEN - Zack marker strip

1051016

https://www.phoenixcontact.com/pc/products/1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,QR:FORTL.ZAHLEN - Zack marker strip

1051029

https://www.phoenixcontact.com/pc/products/1051029



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:GLEICHE ZAHLEN - Zack marker strip

1051032

https://www.phoenixcontact.com/pc/products/1051032



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: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:L1-N,PE - Marker for terminal blocks

1051414

https://www.phoenixcontact.com/pc/products/1051414



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: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:U-N - Marker for terminal blocks

1051430

https://www.phoenixcontact.com/pc/products/1051430



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

UC-TM 6 - Marker for terminal blocks

0818085

https://www.phoenixcontact.com/pc/products/0818085



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: 6.2 mm, Number of individual labels: 80, text field height: 10.5 mm, text field width: 5.6 mm

UC-TM 6 CUS - Marker for terminal blocks

0824589

https://www.phoenixcontact.com/pc/products/0824589



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: 6.2 mm, Number of individual labels: 80, text field height: 10.5 mm, text field width: 5.6 mm

UCT-TM 6 - Marker for terminal blocks

0828736

https://www.phoenixcontact.com/pc/products/0828736



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: 6.2 mm, Number of individual labels: 60, text field height: 10.5 mm, text field width: 5.6 mm

UCT-TM 6 CUS - Marker for terminal blocks

0829602

https://www.phoenixcontact.com/pc/products/0829602



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: 6.2 mm, Number of individual labels: 60, text field height: 10.5 mm, text field width: 5.6 mm

PSBJ 3/13/4 - Test plug strip

0201304

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



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

PSB 3/10/4 - Test plug strip

0601292

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

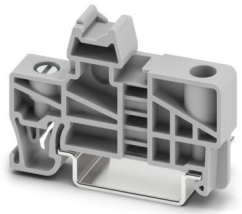


Test plug strip, number of positions: 1, color: silver-colored

E/UK - End bracket

1201442

https://www.phoenixcontact.com/pc/products/1201442



End bracket, material: PA, mounting type: NS 35/7,5, NS 35/15, color: gray

E/UK 1 - End bracket

1201413

https://www.phoenixcontact.com/pc/products/1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

SF-SL 0,6X3,5-100 S-VDE - Screwdriver

1212587

https://www.phoenixcontact.com/pc/products/1212587



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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