

3038147

https://www.phoenixcontact.com/us/products/3038147

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Spring cage ground terminal block, number of connections: 2, connection method: Spring-cage connection, 1 level, cross section:  $0.2~\text{mm}^2$  -  $10~\text{mm}^2$ , mounting type: NS 35/7,5, NS 35/15, color: green-yellow

## Your advantages

- · Same shape and pitch as the feed-through terminal blocks
- · Contact is made free from mechanical and electrical errors by simply snapping onto the DIN rail
- · All the requirements of standard IEC 60947-7-2 are met

### Commercial data

Item number	3038147
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2121
Catalog page	Page 239 (C-1-2019)
GTIN	4017918928964
Weight per piece (including packing)	25.02 g
Weight per piece (excluding packing)	25.02 g
Customs tariff number	85369010
Country of origin	PL



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## Technical data

## Product properties

Product type	Ground terminal block
Number of connections	2
Number of rows	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

## Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.31 W

### Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	6 mm²

#### 1 level

Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	0.2 mm <sup>2</sup> 10 mm <sup>2</sup>
Cross section AWG	24 8 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm <sup>2</sup> 6 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 6 mm²

### **Dimensions**

Width	8.2 mm
End cover width	2.2 mm
Height	58 mm
Depth on NS 35/7,5	50 mm
Depth on NS 35/15	57.5 mm

## Material specifications

Color	green-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C



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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

## Mechanical properties

#### Mechanical data

Open side panel	Yes
·	

### Environmental and real-life conditions

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)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):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 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 %



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## Standards and regulations

	3	
	Connection in acc. with standard	IEC 60947-7-2
Mounting		
	Mounting type	NS 35/7,5
		NS 35/15

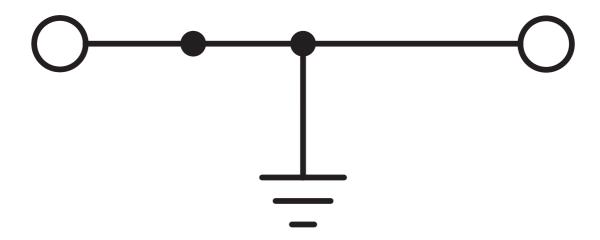


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## Drawings

Circuit diagram





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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3038147

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				
	-	-	24 - 8	-
Use group C				
	-	-	24 - 8	-
Use group D				
	-	-	24 - 8	-

CB scheme	IECEE CB Scheme Approval ID: DE1-63046				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		-	-	-	0.2 - 6

EHC	EAC
LIIL	Approval ID: RU C-DE.A*30.B.01742

Lloyds Register	LR
мерые	Approval ID: LR21234196TA

ClassNK	NK
C1922141/	Approval ID: 06ME279

EAC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00644

VDE Zeichengenehmigung Approval ID: 40038075				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	-	-	-	0.2 - 6

ABS
Approval ID: 21-2158220-PDA



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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				
	-	-	24 - 8	-
Use group C				
	-	-	24 - 8	-

DNV		
Approval ID: TAE00001CS		



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## Classifications

### **ECLASS**

	ECLASS-11.0	27141141
	ECLASS-13.0	27250103
ET	TIM	
	ETIM 9.0	EC000901
UN	ISPSC	

UNSPSC 21.0 39121400



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## 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%



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### Accessories

## FBS 2-8 - Plug-in bridge

3030284

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Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: red

## FBS 3-8 - Plug-in bridge

3030297

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Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: red



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### FBS 4-8 - Plug-in bridge

3030307

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Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: red

### FBS 5-8 - Plug-in bridge

3030310

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Plug-in bridge, pitch: 8.2 mm, number of positions: 5, color: red



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### FBS 10-8 - Plug-in bridge

3030323

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Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: red

### FBS 6-8 - Plug-in bridge

3032470

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Plug-in bridge, pitch: 8.2 mm, number of positions: 6, color: red



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## FBS 2-8 CT - Plug-in bridge

3033830

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Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: orange

### FBS 3-8 CT - Plug-in bridge

3033831

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Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: orange



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### FBS 4-8 CT - Plug-in bridge

3033832

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Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: orange

### FBS 10-8 CT - Plug-in bridge

3033833

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Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: orange



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## FBS 2-8 BU - Plug-in bridge

3032567

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Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: blue

### FBS 3-8 BU - Plug-in bridge

3032570

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Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: blue



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## FBS 4-8 BU - Plug-in bridge

3032583

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Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: blue

### FBS 5-8 BU - Plug-in bridge

3032596

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Plug-in bridge, pitch: 8.2 mm, number of positions: 5, color: blue



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## FBS 6-8 BU - Plug-in bridge

3032677

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Plug-in bridge, pitch: 8.2 mm, number of positions: 6, color: blue

### FBS 10-8 BU - Plug-in bridge

3032606

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Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: blue



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## FBS 2-8 GY - Plug-in bridge

3032621

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Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: gray

## FBS 3-8 GY - Plug-in bridge

3032622

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Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: gray



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## FBS 4-8 GY - Plug-in bridge

3032635

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Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: gray

## FBS 5-8 GY - Plug-in bridge

3032648

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Plug-in bridge, pitch: 8.2 mm, number of positions: 5, color: gray



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## FBS 6-8 GY - Plug-in bridge

3032664

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Plug-in bridge, pitch: 8.2 mm, number of positions: 6, color: gray

### FBS 10-8 GY - Plug-in bridge

3032651

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Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: gray



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### FBSRH 2-8 - Short-circuit connector

3033802

https://www.phoenixcontact.com/us/products/3033802



Short-circuit connector, pitch: 8.2 mm, number of positions: 2, color: red

### FBSRH 3-8 - Short-circuit connector

3033803

https://www.phoenixcontact.com/us/products/3033803



Short-circuit connector, pitch: 8.2 mm, number of positions: 3, color: red



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### FBSRH 4-8 - Short-circuit connector

3033804

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Short-circuit connector, pitch: 8.2 mm, number of positions: 4, color: red

### FBSR 2-8 - Plug-in bridge

3033808

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Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: red



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## FBSR 3-8 - Plug-in bridge

3001597

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Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: red

### FBSR 4-8 - Plug-in bridge

3000585

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Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: red



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## FBSR 5-8 - Plug-in bridge

3033809

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Plug-in bridge, pitch: 8.2 mm, number of positions: 5, color: red

### FBSR 10-8 - Plug-in bridge

3001599

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Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: red



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## SB-MER 2-8 - Switching jumper

3000587

https://www.phoenixcontact.com/us/products/3000587



Switching jumper, pitch: 8.2 mm, number of positions: 2, length: 25 mm, color: gray/orange

## SB-MER 3-8 - Switching jumper

3000588

https://www.phoenixcontact.com/us/products/3000588



Switching jumper, pitch: 8.2 mm, number of positions: 3, length: 25 mm, color: gray/orange



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## SB-MER 4-8 - Switching jumper

3000589

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Switching jumper, pitch: 8.2 mm, number of positions: 4, length: 25 mm, color: gray/orange

### D-STS 6 - End cover

3038189

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End cover, depth: 50 mm, width: 2.2 mm, height: 58 mm, color: gray



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### ATP-ST 6 - Partition plate

3024481

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Partition plate, depth: 47.2 mm, width: 2 mm, height: 73.5 mm, color: gray

## 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



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### 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

### 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



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### 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

### 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



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### 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

### 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



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### 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

### NS 35/7,5 CAP - End cap

1206560

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

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





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### PAI-4-N GY - Test adapter

3032871

https://www.phoenixcontact.com/us/products/3032871



4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch

### E/AL-NS 35 - End bracket

1201662

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



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### ZB 8:UNBEDRUCKT - Zack marker strip

1052002

https://www.phoenixcontact.com/us/products/1052002



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

### ZB 8 CUS - Zack marker strip

0825011

https://www.phoenixcontact.com/us/products/0825011



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, lettering field size:  $10.5 \times 8.15 \text{ mm}$ , Number of individual labels:  $10 \times 10^{-5} \text{ mm}$ 



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#### UC-TM 8 - Marker for terminal blocks

0818072

https://www.phoenixcontact.com/us/products/0818072



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: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 56

#### UC-TM 8 CUS - Marker for terminal blocks

0824597

https://www.phoenixcontact.com/us/products/0824597



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: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 56



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#### UCT-TM 8 - Marker for terminal blocks

0828740

https://www.phoenixcontact.com/us/products/0828740



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: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

### UCT-TM 8 CUS - Marker for terminal blocks

0829616

https://www.phoenixcontact.com/us/products/0829616



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: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42



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### ZB 8,LGS:FORTL.ZAHLEN - Zack marker strip

1052015

https://www.phoenixcontact.com/us/products/1052015



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: 8.2 mm, lettering field size: 10. 5 x 8.15 mm, Number of individual labels: 10

### ZB 8,QR:FORTL.ZAHLEN - Zack marker strip

1052028

https://www.phoenixcontact.com/us/products/1052028



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: 8.2 mm, lettering field size: 10.  $5 \times 8.15$  mm, Number of individual labels: 10



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#### ZB 8,LGS:L1-N,PE - Marker for terminal blocks

1052413

https://www.phoenixcontact.com/us/products/1052413



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: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

#### SZF 2-0,8X4,0 - Screwdriver

1204520

https://www.phoenixcontact.com/us/products/1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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