2901872

https://www.phoenixcontact.com/us/products/2901872

**PHŒNIX** CONTACT

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RIF-0... relay base, for miniature power relay with 1 N/O contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

# Commercial data

Item number	2901872
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	C465
Product key	CK6511
Catalog page	Page 283 (C-5-2019)
GTIN	4046356732994
Weight per piece (including packing)	21.9 g
Weight per piece (excluding packing)	21.9 g
Customs tariff number	85366990
Country of origin	CN

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# Technical data

### Product properties

Product type	Relay socket
Product family	RIFLINE complete
Electrical properties	
Nominal voltage U <sub>N</sub>	250 V AC/DC (Contact side)
Nominal current I <sub>N</sub>	max. 8 A (Depends on application/assembly)
Protective circuit	Freewheeling diode
Protective circuit	Freewheeling diode

12 V DC ... 24 V DC

### Input data

Input voltage range	
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### Connection data

Connection method	Screw connection
Stripping length	7 mm
Conductor cross section rigid	0.5 mm² 4 mm²
Conductor cross-section rigid (2 conductors with same cross section)	0.5 mm² 1.5 mm²
Conductor cross section flexible	0.5 mm² 2.5 mm²
	0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross	0.5 mm² 1.5 mm²
section)	0.5 mm <sup>2</sup> 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	20 12 (solid)
	20 14 (flexible)
Tightening torque	0.5 Nm 0.6 Nm

#### Dimensions

Width	6.2 mm
Height	84 mm
Depth	68 mm

### Material specifications

Flammability rating according to UL 94	V2 (Housing)
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#### Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C (Depends on application/assembly)
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

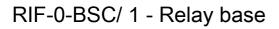
#### 2901872

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# Corrosive gas test Identification ISA-S71.04. G3 Harsh Group EN 60068-2-60 Mounting

	Mounting type	DIN rail mounting
	Mounting position	any

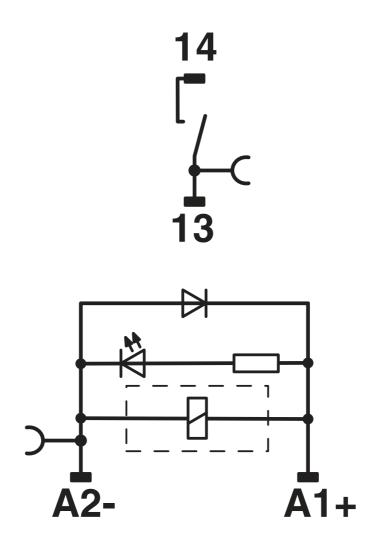


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Drawings

Circuit diagram



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# Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2901872

6	CSA Approval ID: 76787
<b>FL</b>	UL Recognized Approval ID: FILE E 113228
ERC	EAC Approval ID: RU D-DE.B*00573/18
	DNV GL Approval ID: TAA000018V

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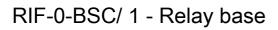
# Classifications

### ECLASS

ECLASS-11.0	27371603
ECLASS-12.0	27371603
ECLASS-13.0	27371603

## ETIM

	ETIM 8.0	EC001456	
UN	UNSPSC		
	UNSPSC 21.0	39122300	



2901872 https://www.phoenixcontact.com/us/products/2901872



# 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"

2901872 https://www.phoenixcontact.com/us/products/2901872



# Mandatory accessories

REL-MR- 12DC/21 - Single relay

2961150 https://www.phoenixcontact.com/us/products/2961150



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 12 V DC  $\,$ 

### REL-MR- 24DC/21 - Single relay

#### 2961105

https://www.phoenixcontact.com/us/products/2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC  $\,$ 

2901872 https://www.phoenixcontact.com/us/products/2901872



REL-MR- 12DC/21AU - Single relay

#### 2961163

https://www.phoenixcontact.com/us/products/2961163



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 12 V DC

# REL-MR- 24DC/21AU - Single relay

2961121 https://www.phoenixcontact.com/us/products/2961121



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

2901872 https://www.phoenixcontact.com/us/products/2901872



## OPT-24DC/ 24DC/ 2 - Miniature solid-state relay

#### 2966595

https://www.phoenixcontact.com/us/products/2966595



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A

#### OPT-24DC/ 48DC/100 - Miniature solid-state relay

#### 2966618

https://www.phoenixcontact.com/us/products/2966618



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

2901872 https://www.phoenixcontact.com/us/products/2901872



# OPT-24DC/230AC/ 1 - Miniature solid-state relay

#### 2967950

https://www.phoenixcontact.com/us/products/2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

# Accessories

FBS 2-6 - Plug-in bridge

3030336 https://www.phoenixcontact.com/us/products/3030336



Plug-in bridge, pitch: 6.2 mm, number of positions: 2, color: red

2901872

https://www.phoenixcontact.com/us/products/2901872



FBS 3-6 - Plug-in bridge

3030242

https://www.phoenixcontact.com/us/products/3030242



Plug-in bridge, pitch: 6.2 mm, number of positions: 3, color: red

#### FBS 4-6 - Plug-in bridge

3030255 https://www.phoenixcontact.com/us/products/3030255



Plug-in bridge, pitch: 6.2 mm, number of positions: 4, color: red

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FBS 5-6 - Plug-in bridge

3030349

https://www.phoenixcontact.com/us/products/3030349



Plug-in bridge, pitch: 6.2 mm, number of positions: 5, color: red

#### FBS 10-6 - Plug-in bridge

3030271 https://www.phoenixcontact.com/us/products/3030271



Plug-in bridge, pitch: 6.2 mm, number of positions: 10, color: red

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FBS 20-6 - Plug-in bridge

3030365

https://www.phoenixcontact.com/us/products/3030365



Plug-in bridge, pitch: 6.2 mm, number of positions: 20, color: red

#### FBS 50-6 - Plug-in bridge

3032224 https://www.phoenixcontact.com/us/products/3032224



Plug-in bridge, pitch: 6.2 mm, number of positions: 50, color: red

2901872 https://www.phoenixcontact.com/us/products/2901872



FBS 2-6 BU - Plug-in bridge

3036932

https://www.phoenixcontact.com/us/products/3036932



Plug-in bridge, pitch: 6.2 mm, number of positions: 2, color: blue

#### FBS 3-6 BU - Plug-in bridge

3036945 https://www.phoenixcontact.com/us/products/3036945



Plug-in bridge, pitch: 6.2 mm, number of positions: 3, color: blue

2901872 https://www.phoenixcontact.com/us/products/2901872



FBS 4-6 BU - Plug-in bridge

3036958

https://www.phoenixcontact.com/us/products/3036958



Plug-in bridge, pitch: 6.2 mm, number of positions: 4, color: blue

#### FBS 5-6 BU - Plug-in bridge

3036961 https://www.phoenixcontact.com/us/products/3036961



Plug-in bridge, pitch: 6.2 mm, number of positions: 5, color: blue

2901872 https://www.phoenixcontact.com/us/products/2901872



FBS 10-6 BU - Plug-in bridge

3032198 https://www.phoenixcontact.com/us/products/3032198



Plug-in bridge, pitch: 6.2 mm, number of positions: 10, color: blue

# FBS 20-6 BU - Plug-in bridge

3032208 https://www.phoenixcontact.com/us/products/3032208



Plug-in bridge, pitch: 6.2 mm, number of positions: 20, color: blue

2901872 https://www.phoenixcontact.com/us/products/2901872



FBS 50-6 BU - Plug-in bridge

3032211

https://www.phoenixcontact.com/us/products/3032211



Plug-in bridge, pitch: 6.2 mm, number of positions: 50, color: blue

FBS 2-6 GY - Plug-in bridge

3032237 https://www.phoenixcontact.com/us/products/3032237



Plug-in bridge, pitch: 6.2 mm, number of positions: 2, color: gray

2901872 https://www.phoenixcontact.com/us/products/2901872



FBS 3-6 GY - Plug-in bridge

# 3032240

https://www.phoenixcontact.com/us/products/3032240



Plug-in bridge, pitch: 6.2 mm, number of positions: 3, color: gray

## FBS 4-6 GY - Plug-in bridge

3032279 https://www.phoenixcontact.com/us/products/3032279



Plug-in bridge, pitch: 6.2 mm, number of positions: 4, color: gray

2901872 https://www.phoenixcontact.com/us/products/2901872



FBS 5-6 GY - Plug-in bridge

3032266

https://www.phoenixcontact.com/us/products/3032266



Plug-in bridge, pitch: 6.2 mm, number of positions: 5, color: gray

# FBS 10-6 GY - Plug-in bridge

3032253 https://www.phoenixcontact.com/us/products/3032253



Plug-in bridge, pitch: 6.2 mm, number of positions: 10, color: gray

2901872 https://www.phoenixcontact.com/us/products/2901872



### PLC-FA-5X20 - Fuse adapter

#### 1186510

https://www.phoenixcontact.com/us/products/1186510



Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For  $5 \times 20$  mm fuses. Operating voltage: Universal. Without fuse failure indication.

### PLC-FA-I-5X20-12-24UC - Fuse adapter

1186499 https://www.phoenixcontact.com/us/products/1186499



Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: 12 ... 24 V AC/DC. With LED for fuse failure indication.

2901872 https://www.phoenixcontact.com/us/products/2901872



PLC-FA-I-5X20-120-230UC - Fuse adapter

1186508

https://www.phoenixcontact.com/us/products/1186508



Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: 120 ... 230 V AC/DC. With LED for fuse failure indication.

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

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



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

#### 0801681

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



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

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

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



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

#### 1204122

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



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

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

0801704

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



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

#### 1206421

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



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

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

1206434

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



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

#### 0801762

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



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

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



2901872 https://www.phoenixcontact.com/us/products/2901872



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

#### 1201730

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



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

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

1201714

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



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

0806602

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



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

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

1204135

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



# 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

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

1206599

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



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

#### 1206586

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



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

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

1201895

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



NS 35/15 CAP - End cap

1206573 https://www.phoenixcontact.com/us/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/us/products/1201798



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

2901872 https://www.phoenixcontact.com/us/products/2901872



CLIPFIX 35 - End clamp

#### 3022218

https://www.phoenixcontact.com/us/products/3022218

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray



### CLIPFIX 35-5 - End clamp

# 3022276 https://www.phoenixcontact.com/us/products/3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5. 15 mm, color: gray

2901872

https://www.phoenixcontact.com/us/products/2901872



E/NS 35 N - End clamp

0800886 https://www.phoenixcontact.com/us/products/0800886

End clamp, width: 9.5 mm, color: gray



MPS-MT - Test plugs

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



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

2901872 https://www.phoenixcontact.com/us/products/2901872



MPS-IH WH - Insulating sleeve

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

Insulating sleeve, color: white



### MPS-IH RD - Insulating sleeve

0201676 https://www.phoenixcontact.com/us/products/0201676

Insulating sleeve, color: red



2901872 https://www.phoenixcontact.com/us/products/2901872



MPS-IH BU - Insulating sleeve

#### 0201689

https://www.phoenixcontact.com/us/products/0201689

Insulating sleeve, color: blue



### MPS-IH YE - Insulating sleeve

0201692 https://www.phoenixcontact.com/us/products/0201692

Insulating sleeve, color: yellow



2901872 https://www.phoenixcontact.com/us/products/2901872



MPS-IH GN - Insulating sleeve

0201702 https://www.phoenixcontact.com/us/products/0201702

Insulating sleeve, color: green



#### MPS-IH GY - Insulating sleeve

0201728 https://www.phoenixcontact.com/us/products/0201728

Insulating sleeve, color: gray



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2901872 https://www.phoenixcontact.com/us/products/2901872



MPS-IH BK - Insulating sleeve

0201731 https://www.phoenixcontact.com/us/products/0201731

Insulating sleeve, color: black



# ZB 6:UNBEDRUCKT - Zack marker strip

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



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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### ZB 6 CUS - Zack marker strip

#### 0824992

https://www.phoenixcontact.com/us/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, lettering field size:  $6.15 \times 10.5$  mm, Number of individual labels: 10

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

1051016 https://www.phoenixcontact.com/us/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: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10

2901872 https://www.phoenixcontact.com/us/products/2901872



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

1051029

https://www.phoenixcontact.com/us/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: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10

#### ZB 6,LGS:GLEICHE ZAHLEN - Zack marker strip

1051032 https://www.phoenixcontact.com/us/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: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

2901872 https://www.phoenixcontact.com/us/products/2901872



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

1051414

https://www.phoenixcontact.com/us/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: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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

1051430 https://www.phoenixcontact.com/us/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: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10. 5 mm, Number of individual labels: 10

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#### UC-TM 6 - Marker for terminal blocks

#### 0818085

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



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: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

### UC-TM 6 CUS - Marker for terminal blocks

0824589

https://www.phoenixcontact.com/us/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, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

2901872 https://www.phoenixcontact.com/us/products/2901872



#### UCT-TM 6 - Marker for terminal blocks

#### 0828736

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



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: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

#### UCT-TM 6 CUS - Marker for terminal blocks

0829602

https://www.phoenixcontact.com/us/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, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

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