

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



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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	10 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)	21.4 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
Data management status	
Article revision	03

### 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

### Input data

Input voltage range	12 V DC 24 V DC

#### 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 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm² 2.5 mm²
	0.5 mm² 2.5 mm² (Ferrule 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 mm² 1 mm² (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

Color	gray (RAL 7042)
Flammability rating according to UL 94	V2 (Housing)

### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C (Depends on application/assembly)
Ambient temperature (operation)	-40 C 65 C (Depends on application/assembly)



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	Ambient temperature (storage/transport)	-40 °C 85 °C	
Αp	Approvals		
	Corrosive gas test		
	Identification	ISA-S71.04. G3 Harsh Group	
		EN 60068-2-60	
Mounting			
	Mounting type	DIN rail mounting	
	Mounting position	any	

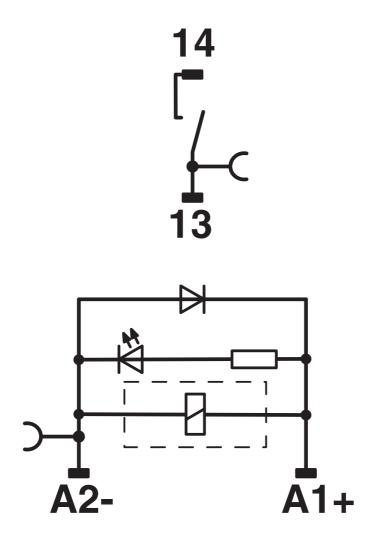
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### Drawings

Circuit diagram





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### **Approvals**

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



**CSA** 

Approval ID: 76787



**UL Recognized** 

Approval ID: FILE E 113228



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 9.0	EC001456
UN	SPSC	

### U

UNSPSC 21.0 39	39122300
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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)
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	fa473390-bb48-42f0-9053-b3414311268f



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### 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  $\,$ 



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### 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



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### 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



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### 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



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FBS 3-6 - Plug-in bridge

3030242

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

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

3030255

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



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

3030349

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

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

3030271

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



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### FBS 20-6 - Plug-in bridge

3030365

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

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

3032224

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



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### FBS 2-6 BU - Plug-in bridge

3036932

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

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

3036945

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



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

3036958

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

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

3036961

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



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

3032198

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

#### FBS 20-6 BU - Plug-in bridge

3032208

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



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### 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



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### 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



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### 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



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#### 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  $5\,x\,20$  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  $5 \times 20$  mm fuses. Operating voltage: 12 ... 24 V AC/DC. With LED for fuse failure indication.



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#### 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  $5 \times 20$  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, 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



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

1201730

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

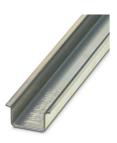


DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

#### 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



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#### 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

#### 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



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



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

### 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



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



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#### CLIPFIX 35 - End bracket

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 bracket

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



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

0800886

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



End clamp, width: 9.5 mm, color: gray

#### MPS-MT - Test plug

0201744

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



Test plug, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray



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### 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





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### 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





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### 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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#### 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 x 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.  $15 \times 10.5$  mm, Number of individual labels: 10

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#### 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  $\dots$  10, 11  $\dots$  20, etc. up to 491  $\dots$  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



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#### 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



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#### 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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