

1087698

https://www.phoenixcontact.com/us/products/1087698

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Knife-disconnect terminal block, for CLIXTRAB surge protection, Test-disconnect terminal block for surge protection, nom. voltage: 400 V, nominal current: 20 A, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

### Commercial data

Item number	1087698
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2231
GTIN	4055626885902
Weight per piece (including packing)	15.1 g
Weight per piece (excluding packing)	15 g
Customs tariff number	85369010
Country of origin	PL



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### Technical data

#### Notes

General	for CLIXTRAB surge protection
roduct properties	
Product type	Disconnect terminal block
Number of positions	1
Number of connections	2
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
lectrical properties	
Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Number of connections per level	3
Nominal cross section	2.5 mm²
Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 4 mm²
Conductor cross section, flexible [AWG]	26 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm <sup>2</sup>
Nominal current	20 A
Maximum load current	20 A (with a 2.5 mm² conductor cross section)
Nominal voltage	400 V
Nominal cross section	2.5 mm²
Connection cross sections directly pluggable	

0.34 mm<sup>2</sup> ... 4 mm<sup>2</sup>

0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

0.34 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

### **Dimensions**

Conductor cross section rigid

Conductor cross-section flexible (ferrule without plastic sleeve)

Flexible conductor cross section (ferrule with plastic sleeve)



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Width	5.2 mm
End cover width	2.2 mm
Height	98.6 mm
Depth on NS 35/7,5	36.8 mm
Depth on NS 35/15	44.25 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
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

#### Electrical tests

### Surge voltage test

Result	Test passed	
Temperature-rise test		
Requirement temperature-rise test	Increase in temperature ≤ 45 K	
Result	Test passed	
Short-time withstand current 2.5 mm²	0.3 kA	
Result	Test passed	
Power-frequency withstand voltage		
Test voltage setpoint	1.89 kV	
Result	Test passed	

### Mechanical properties

Mac	han	ical	data

Open side panel	Yes	

#### Mechanical tests

#### Mechanical strength



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Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Result	Test passed
Fest for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
Conductor cross costion morgine	0.2 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed
Aging Temperature cycles	192
Result	Test passed
Nesuit	i est passeu
Needle-flame test	
Time of exposure	30 s
Result	Test passed
Oscillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	0.964 (m/s²)²/Hz
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
Shocks	
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 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 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)



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Ambient temperature (assembly)	-5 °C 70 °C	
Ambient temperature (actuation)	-5 °C 70 °C	
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	

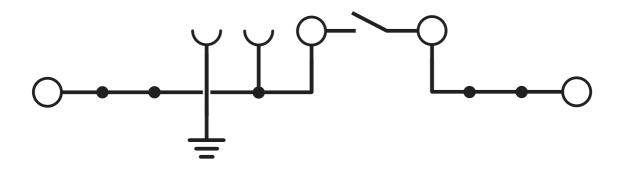


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### Drawings

Circuit diagram





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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1087698



EAC

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



LR

Approval ID: LR2371832TA



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### Classifications

### **ECLASS**

	ECLASS-11.0	27141126	
	ECLASS-12.0	27141126	
	ECLASS-13.0	27250108	
	ETIM		
	ETIM 8.0	EC000902	
UNSPSC			
	UNSPSC 21.0	39121400	



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### Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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### Accessories



Note: Applying some accessories below might limit this product.

### FBS 2-5 - Plug-in bridge

3030161

https://www.phoenixcontact.com/us/products/3030161



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, length: 23 mm, color: red

Max. current carrying capacity: 20 A

### FBS 3-5 - Plug-in bridge

3030174

https://www.phoenixcontact.com/us/products/3030174



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, length: 23 mm, color: red



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### FBS 4-5 - Plug-in bridge

3030187

https://www.phoenixcontact.com/us/products/3030187



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, length: 23 mm, color: red

1 Max. current carrying capacity: 20 A

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

3030190

https://www.phoenixcontact.com/us/products/3030190



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, length: 23 mm, color: red



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

3030213

https://www.phoenixcontact.com/us/products/3030213



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, length: 23 mm, color: red

1 Max. current carrying capacity: 20 A

### FBS 20-5 - Plug-in bridge

3030226

https://www.phoenixcontact.com/us/products/3030226



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: red



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### FBS 50-5 - Plug-in bridge

3038930

https://www.phoenixcontact.com/us/products/3038930



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: red

Max. current carrying capacity: 20 A

### FBS 2-5 BU - Plug-in bridge

3036877

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Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue



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### FBS 3-5 BU - Plug-in bridge

3036880

https://www.phoenixcontact.com/us/products/3036880



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: blue

1 Max. current carrying capacity: 20 A

### FBS 4-5 BU - Plug-in bridge

3036893

https://www.phoenixcontact.com/us/products/3036893



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: blue



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

3036903

https://www.phoenixcontact.com/us/products/3036903



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: blue

1 Max. current carrying capacity: 20 A

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

3036916

https://www.phoenixcontact.com/us/products/3036916



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: blue



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### FBS 20-5 BU - Plug-in bridge

3036929

https://www.phoenixcontact.com/us/products/3036929



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: blue

Max. current carrying capacity: 20 A

### FBS 50-5 BU - Plug-in bridge

3032114

https://www.phoenixcontact.com/us/products/3032114



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: blue



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### RB ST (2,5/4)-1,5/S - Reducing bridge

3214356

https://www.phoenixcontact.com/us/products/3214356



Reducing bridge, pitch: 6.7 mm, number of positions: 2, length: 23 mm, color: red

1 Max. current carrying capacity: 24 A

### RB ST 6-(2,5/4) - Reducing bridge

3030860

https://www.phoenixcontact.com/us/products/3030860



Reducing bridge, pitch: 9 mm, number of positions: 2, length: 30 mm, color: red



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

3030873

https://www.phoenixcontact.com/us/products/3030873



Reducing bridge, pitch: 10 mm, number of positions: 2, length: 36 mm, color: red

1 Max. current carrying capacity: 35 A

### RB ST 16-(2,5/4) - Reducing bridge

3030886

https://www.phoenixcontact.com/us/products/3030886



Reducing bridge, pitch: 11 mm, number of positions: 2, length: 37 mm, color: red



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### RB ST 35-(2,5/4) - Reducing bridge

3030899

https://www.phoenixcontact.com/us/products/3030899



Reducing bridge, pitch: 11 mm, number of positions: 2, color: red

1 Max. current carrying capacity: 35 A

### RB ST (2,5/4)-1,5 - Reducing bridge

3038943

https://www.phoenixcontact.com/us/products/3038943



Reducing bridge, pitch: 7.1 mm, number of positions: 2, length: 23 mm, color: red



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### RB UT 6-ST(2,5/4) - Reducing bridge

3047264

https://www.phoenixcontact.com/us/products/3047264



Reducing bridge, pitch: 9.5 mm, number of positions: 2, length: 33 mm, color: red

1 Max. current carrying capacity: 35 A

### RB UT 35-ST(2,5/4) - Reducing bridge

3047280

https://www.phoenixcontact.com/us/products/3047280



Reducing bridge, pitch: 10.8 mm, number of positions: 2, color: red



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

3047086

https://www.phoenixcontact.com/us/products/3047086



Reducing bridge, pitch: 10.2 mm, number of positions: 2, length: 33 mm, color: red

1 Max. current carrying capacity: 40 A

### RB UT 16-ST(2,5/4) - Reducing bridge

3047099

https://www.phoenixcontact.com/us/products/3047099



Reducing bridge, pitch: 11 mm, number of positions: 2, length: 41 mm, color: red



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#### D-PT 2,5-MT-CLT - End cover

1088502

https://www.phoenixcontact.com/us/products/1088502

End cover, length: 98.6 mm, width: 2.2 mm, height: 98.6 mm, color: gray



### S-MT - Switching lock

3247954

https://www.phoenixcontact.com/us/products/3247954



Switching lock, length: 10.5 mm, width: 3.5 mm, height: 10.5 mm, color: white



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#### CLT-10P/2-VF-230V-I-P - Surge protection plug

1088564

https://www.phoenixcontact.com/us/products/1088564



Surge protection plug, directly pluggable on 2 terminal blocks, with integrated status indicator on the module for a 2-wire floating signal circuit with high nominal current. Nominal voltage: 230 V AC

### CLT-20P/4-VF-230V-I-P - Surge protection plug

1088567

https://www.phoenixcontact.com/us/products/1088567



Surge protection plug, directly pluggable on 4 terminal blocks, with integrated status indicator on the module for a 4-wire floating signal circuit with high nominal current. Nominal voltage: 230 V AC



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### CLT-10P/2-2-12V-I-P - Surge protection plug

1088569

https://www.phoenixcontact.com/us/products/1088569



Surge protection plug, directly pluggable on 2 terminal blocks, with integrated status indicator on the module for a 2-wire floating signal circuit. Nominal voltage:  $12\ V\ DC$ 

### CLT-10P/2-2-24V-I-P - Surge protection plug

1088570

https://www.phoenixcontact.com/us/products/1088570



Surge protection plug, directly pluggable on 2 terminal blocks, with integrated status indicator on the module for a 2-wire floating signal circuit. Nominal voltage:  $24\ V\ DC$ 



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#### CLT-10P/2-2-60V-I-P - Surge protection plug

1088573

https://www.phoenixcontact.com/us/products/1088573



Surge protection plug, directly pluggable on 2 terminal blocks, with integrated status indicator on the module for a 2-wire floating signal circuit. Nominal voltage: 60 V DC

#### TTC-6-FMTX-PT - Remote signaling module transmitter

1193565

https://www.phoenixcontact.com/us/products/1193565



Transmitter module, for the visual monitoring and floating remote signaling of adjacent surge protective devices from the TERMITRAB complete or CLIXTRAB product family. Suitable for directly or indirectly grounded DIN rails.



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### TTC-6-FMRX-PT - Remote signaling module receiver

1193571

https://www.phoenixcontact.com/us/products/1193571



Receiver module, for the visual monitoring and floating remote signaling of adjacent surge protective devices from the TERMITRAB complete or CLIXTRAB product family. Suitable for directly or indirectly grounded DIN rails.

#### CHECKMASTER 2 - Test device

2905256

https://www.phoenixcontact.com/us/products/2905256



CHECKMASTER 2 test device for testing the correct function of surge protective devices from Phoenix Contact.



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### CM 2-PA-CLT - Test device adapter

1183360

https://www.phoenixcontact.com/us/products/1183360



CHECKMASTER 2 test adapter for the CLT product range.

### P-DI - Isolating plugs

3036783

https://www.phoenixcontact.com/us/products/3036783



Isolating plugs, length: 10.8 mm, width: 3.5 mm, height: 10.8 mm, color: orange



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### PS-5 - Test plugs

3030983

https://www.phoenixcontact.com/us/products/3030983



Test plugs, Modular test plug, number of positions: 1, color: red

### DP PS-5 - Spacer plate

3036725

https://www.phoenixcontact.com/us/products/3036725



Spacer plate, length: 22.4 mm, width: 5.2 mm, height: 22.4 mm, number of positions: 1, color: red



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### PS-5/2,3MM RD - Test plugs

3038723

https://www.phoenixcontact.com/us/products/3038723



Test plugs, number of positions: 1, color: red

### PAI-4-FIX-5/6 BU - Test adapter

3035975

https://www.phoenixcontact.com/us/products/3035975





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### PAI-4-FIX-5/6 OG - Test adapter

3035974

https://www.phoenixcontact.com/us/products/3035974



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

### PAI-4-FIX-5/6 YE - Test adapter

3035977

https://www.phoenixcontact.com/us/products/3035977





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### PAI-4-FIX-5/6 RD - Test adapter

3035976

https://www.phoenixcontact.com/us/products/3035976



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

### PAI-4-FIX-5/6 GN - Test adapter

3035978

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### PAI-4-FIX-5/6 BK - Test adapter

3035980

https://www.phoenixcontact.com/us/products/3035980



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

### PAI-4-FIX-5/6 GY - Test adapter

3035982

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### PAI-4-FIX-5/6 VT - Test adapter

3035979

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

### PAI-4-FIX-5/6 BN - Test adapter

3035981

https://www.phoenixcontact.com/us/products/3035981





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### PAI-4-FIX-5/6 WH - Test adapter

3035983

https://www.phoenixcontact.com/us/products/3035983



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

### ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

https://www.phoenixcontact.com/us/products/0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10



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#### ZBF 5 CUS - Zack Marker strip, flat

#### 0825025

https://www.phoenixcontact.com/us/products/0825025



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

#### ZBF 5,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

#### 0808671

https://www.phoenixcontact.com/us/products/0808671



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1  $\dots$  10, 11  $\dots$  20, etc. up to 491  $\dots$  500, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10



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#### ZBF 5,QR:FORTL.ZAHLEN - Zack Marker strip, flat

#### 0808697

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Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

#### ZBF 5,LGS:GERADE ZAHLEN - Zack Marker strip, flat

#### 0810821

https://www.phoenixcontact.com/us/products/0810821



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10



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### ZBF 5,LGS:UNGERADE ZAHLEN - Zack Marker strip, flat

0810863

https://www.phoenixcontact.com/us/products/0810863



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

#### UC-TMF 5 - Marker for terminal blocks

0818153

https://www.phoenixcontact.com/us/products/0818153



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:  $5.2 \, \text{mm}$ , lettering field size:  $4.6 \times 5.1 \, \text{mm}$ , Number of individual labels:  $96 \, \text{mm}$ 



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#### UC-TMF 5 CUS - Marker for terminal blocks

0824638

https://www.phoenixcontact.com/us/products/0824638



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

#### UCT-TMF 5 - Marker for terminal blocks

0828744

https://www.phoenixcontact.com/us/products/0828744



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: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72



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### UCT-TMF 5 CUS - Marker for terminal blocks

0829658

https://www.phoenixcontact.com/us/products/0829658



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

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