

BTFE 6-3/7 2U - Test terminal strip



1029245

<https://www.phoenixcontact.com/pc/products/1029245>

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Test terminal strip, nom. voltage: 400 V, nominal current: 24 A, connection method: Ring cable lug, 1 level, Rated cross section: 6 mm², mounting type: Wall mounting, color: gray

Commercial data

Item number	1029245
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BE6114
Catalog page	Page 650 (C-1-2019)
GTIN	4055626531014
Weight per piece (including packing)	370.5 g
Weight per piece (excluding packing)	370.5 g
Customs tariff number	85369010
Country of origin	PL

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1029245

<https://www.phoenixcontact.com/pc/products/1029245>



Technical data

Product properties

Product type	Test terminal strip
Insulation characteristics	
Overvoltage category	III

Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	1.02 W
Test surge voltage	5 kV

Connection data

Nominal cross section	4 mm ²
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1 level

Tightening torque	1 ... 1.3 Nm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section flexible	0.5 mm ² ... 6 mm ²
Conductor cross section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Nominal current	24 A
Maximum load current	24 A
Nominal voltage	400 V
Nominal cross section	6 mm ²

Cable lug connection DIN 46237:1970-07

Connection in acc. with standard	DIN 46237:1970-07
Cross section	0.5 mm ² ... 2.5 mm ²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	3.7 mm
Width	6.8 mm
Bolt diameter	3.5 mm
Identification color of ring cable lugs : red	1 mm ²
Identification color of ring cable lugs : blue	2.5 mm ²
Cross section	4 mm ² ... 6 mm ²
Additional text	Type RS PRO Order No. 267-3919, vertical crimping
Cross section range AWG	(converted acc. to IEC)
Hole diameter	3.7 mm
Width	7.2 mm
Bolt diameter	3.5 mm

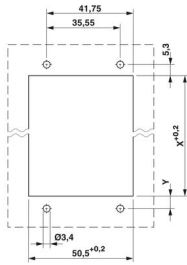
Dimensions

BTFE 6-3/7 2U - Test terminal strip

1029245

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Dimensional drawing	
	
Width	172.6 mm
Height	51.5 mm
Depth	130.45 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PC
Relative insulation material temperature index (Elec., UL 746 B)	130 °C

Electrical tests

Surge voltage test

Result	Test passed
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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 4 mm²	0.5 kA
	0.3 kA
	0.15 kA
	1.25 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Mechanical strength

Result	Test passed
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1029245

<https://www.phoenixcontact.com/pc/products/1029245>

Attachment on the carrier

Result	Test passed
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Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	2.5 mm ² / 0.7 kg
	2.0 mm ² / 0.7 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 55 °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 (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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Mounting

Mounting type	Wall mounting
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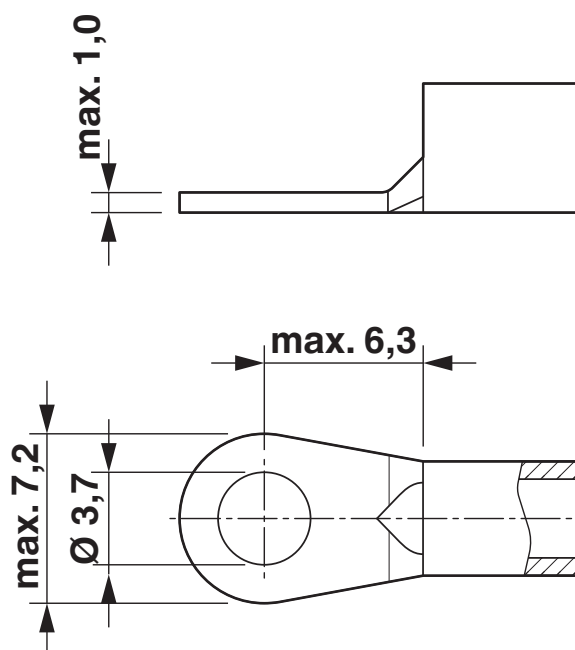
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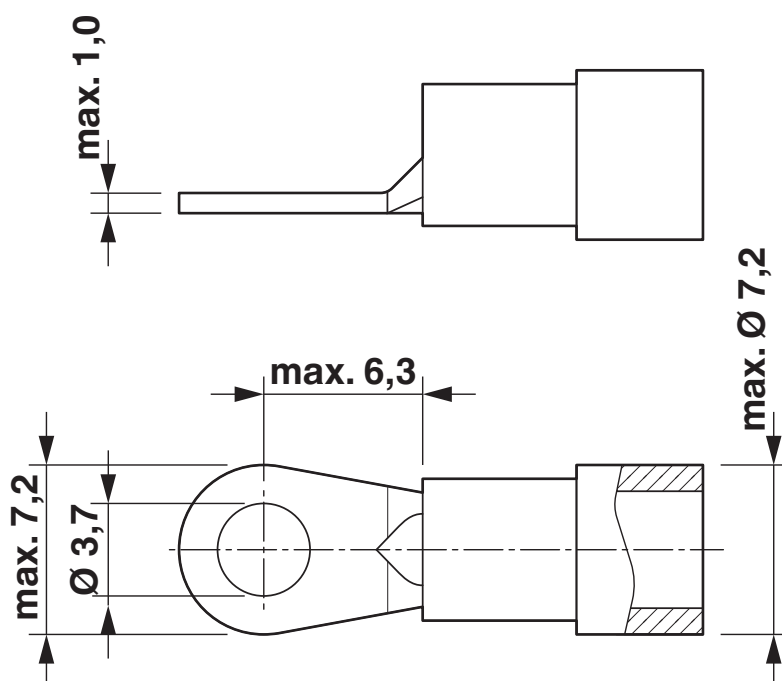


Drawings

Dimensional drawing



Dimensional drawing



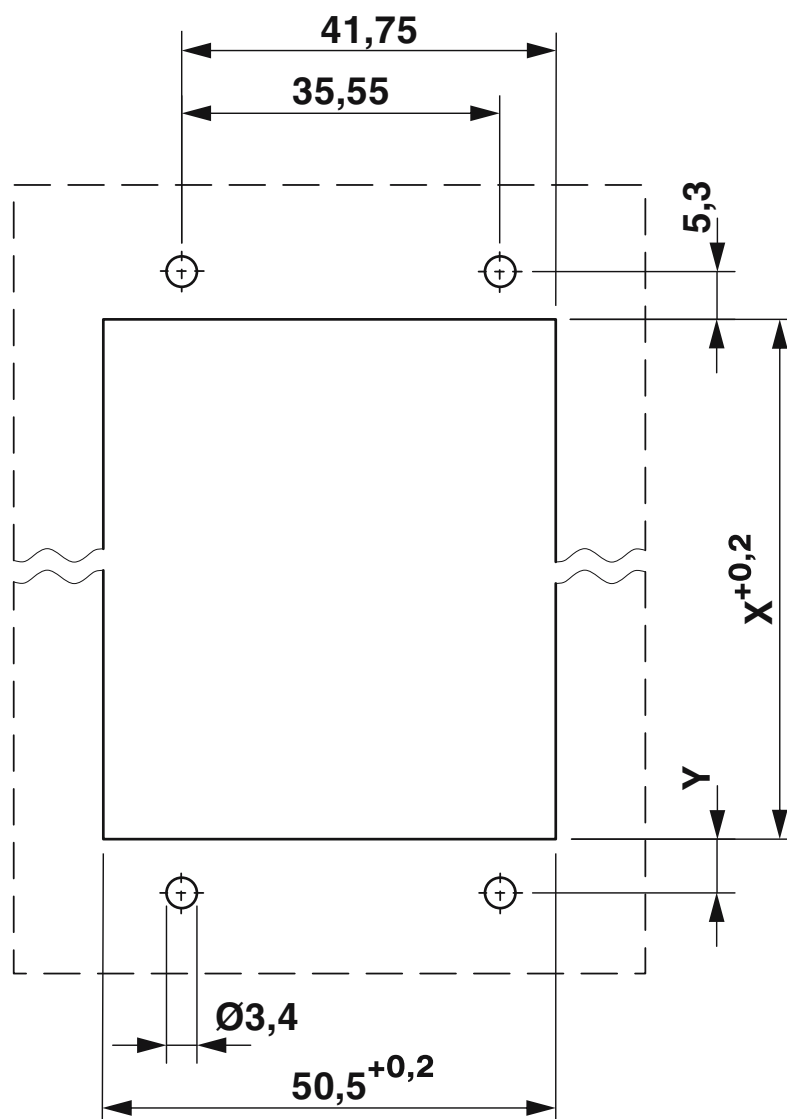
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Dimensional drawing



X = 66.6 mm

Y = 6.0 mm

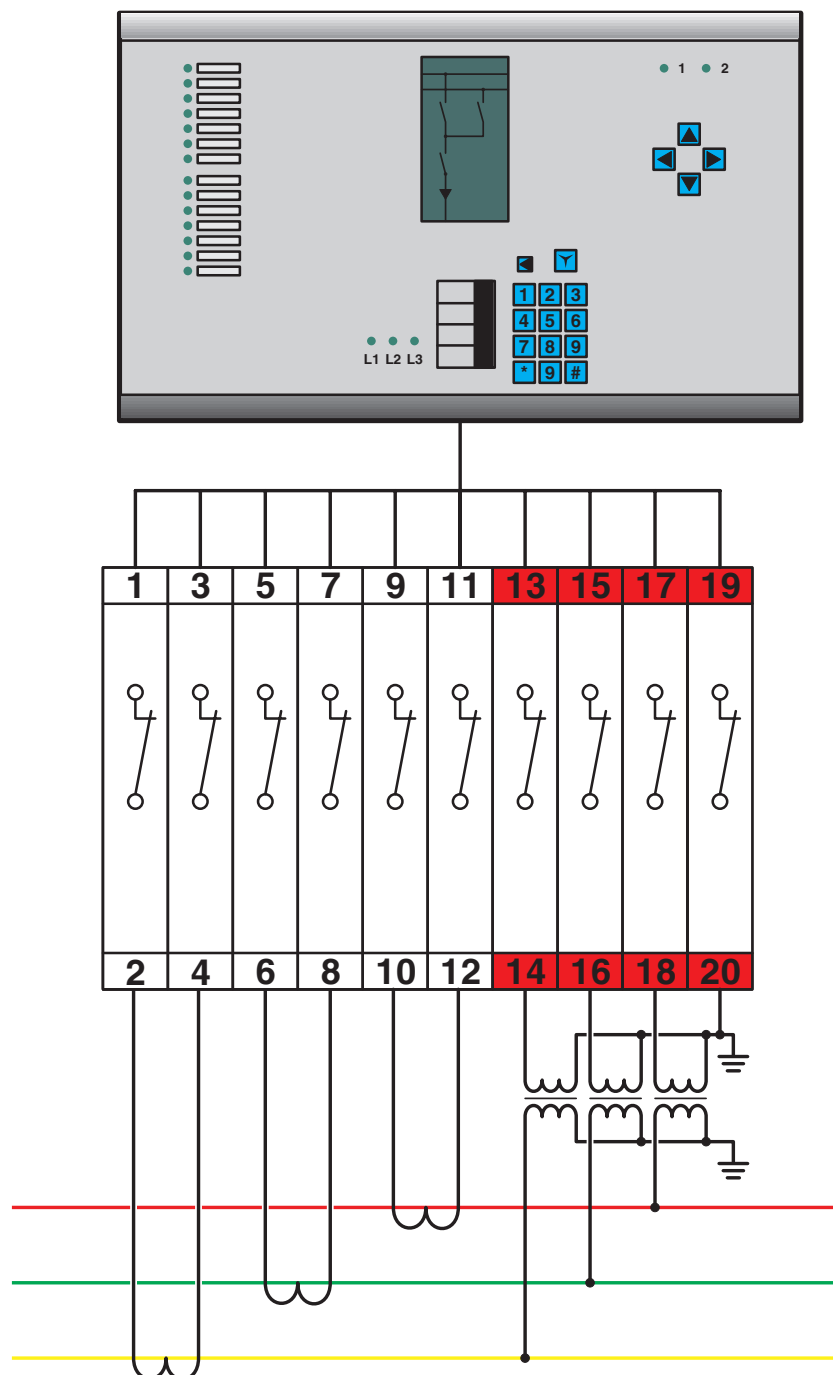
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Circuit diagram



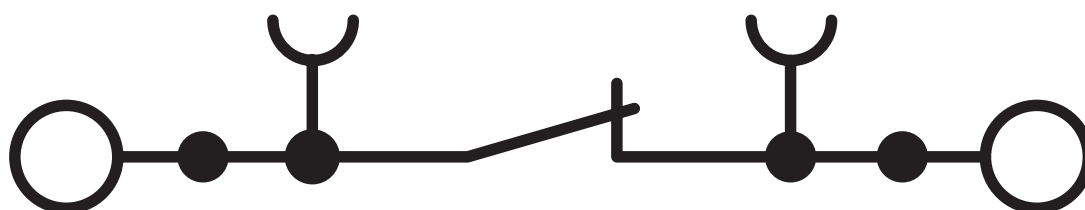
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1029245

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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1029245>

CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	30 A	20 - 10	-
Use group C				
	300 V	30 A	20 - 10	-
Use group D				
	600 V	5 A	20 - 10	-

cUL Recognized Approval ID: FILE E 60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	30 A	20 - 10	-
Use group C				
	300 V	30 A	20 - 10	-
Use group F				
	400 V	30 A	20 - 10	-
Use group D				
	600 V	5 A	20 - 10	-

UL Recognized Approval ID: FILE E 60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	30 A	20 - 10	-
Use group C				
	300 V	30 A	20 - 10	-
Use group F				
	400 V	30 A	20 - 10	-
Use group D				
	600 V	5 A	20 - 10	-

cULus Recognized

BTFE 6-3/7 2U - Test terminal strip



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Classifications

ECLASS

ECLASS-11.0	27141126
ECLASS-12.0	27141126
ECLASS-13.0	27250190

ETIM

ETIM 8.0	EC000902
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UNSPSC

UNSPSC 21.0	39121400
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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"

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1029245

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Accessories

i Note: Applying some accessories below might limit this product.

FBS 2-8 - Plug-in bridge

3030284

<https://www.phoenixcontact.com/pc/products/3030284>



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

i Max. current carrying capacity: 24 A

FBS 3-8 - Plug-in bridge

3030297

<https://www.phoenixcontact.com/pc/products/3030297>



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

i Max. current carrying capacity: 24 A

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FBS 4-8 - Plug-in bridge

3030307

<https://www.phoenixcontact.com/pc/products/3030307>



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

 Max. current carrying capacity: 24 A

FBS 5-8 - Plug-in bridge

3030310

<https://www.phoenixcontact.com/pc/products/3030310>



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

 Max. current carrying capacity: 24 A

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FBS 6-8 - Plug-in bridge

3032470

<https://www.phoenixcontact.com/pc/products/3032470>



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

 Max. current carrying capacity: 24 A

FBS 10-8 - Plug-in bridge

3030323

<https://www.phoenixcontact.com/pc/products/3030323>



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

 Max. current carrying capacity: 24 A

BTFE 6-3/7 2U - Test terminal strip

1029245

<https://www.phoenixcontact.com/pc/products/1029245>



FBS 1/3-8 - Plug-in bridge

3032363

<https://www.phoenixcontact.com/pc/products/3032363>



Plug-in bridge, pitch: 8.2 mm, number of positions: 3, pin assignment: 1,3, color: red

 Max. current carrying capacity: 24 A

FBS 1/4-8 - Plug-in bridge

3032376

<https://www.phoenixcontact.com/pc/products/3032376>



Plug-in bridge, pitch: 8.2 mm, number of positions: 4, pin assignment: 1, 4, color: red

 Max. current carrying capacity: 24 A

BTFE 6-3/7 2U - Test terminal strip

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FBS 1/3/5-8 - Plug-in bridge

3032389

<https://www.phoenixcontact.com/pc/products/3032389>



Plug-in bridge, pitch: 8.2 mm, number of positions: 5, pin assignment: 1,3,5, color: red

 Max. current carrying capacity: 24 A

FBS 1/4/7/10-8 - Plug-in bridge

3032402

<https://www.phoenixcontact.com/pc/products/3032402>



Plug-in bridge, pitch: 8.2 mm, number of positions: 10, pin assignment: 1,4,7,10, color: red

 Max. current carrying capacity: 24 A

BTFE 6-3/7 2U - Test terminal strip

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FBSR 5-8 - Plug-in bridge

3033809

<https://www.phoenixcontact.com/pc/products/3033809>



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

 Max. current carrying capacity: 24 A

FBS 2-8 CT - Plug-in bridge

3033830

<https://www.phoenixcontact.com/pc/products/3033830>



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

 Max. current carrying capacity: 24 A

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FBS 3-8 CT - Plug-in bridge

3033831

<https://www.phoenixcontact.com/pc/products/3033831>



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

 Max. current carrying capacity: 24 A

FBS 4-8 CT - Plug-in bridge

3033832

<https://www.phoenixcontact.com/pc/products/3033832>



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

 Max. current carrying capacity: 24 A

BTFE 6-3/7 2U - Test terminal strip

1029245

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FBS 10-8 CT - Plug-in bridge

3033833

<https://www.phoenixcontact.com/pc/products/3033833>



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

 Max. current carrying capacity: 24 A

FBS 2-8 BU - Plug-in bridge

3032567

<https://www.phoenixcontact.com/pc/products/3032567>



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

 Max. current carrying capacity: 24 A

BTFE 6-3/7 2U - Test terminal strip

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FBS 3-8 BU - Plug-in bridge

3032570

<https://www.phoenixcontact.com/pc/products/3032570>



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

 Max. current carrying capacity: 24 A

FBS 4-8 BU - Plug-in bridge

3032583

<https://www.phoenixcontact.com/pc/products/3032583>



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

 Max. current carrying capacity: 24 A

BTFE 6-3/7 2U - Test terminal strip

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FBS 5-8 BU - Plug-in bridge

3032596

<https://www.phoenixcontact.com/pc/products/3032596>



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

 Max. current carrying capacity: 24 A

FBS 6-8 BU - Plug-in bridge

3032677

<https://www.phoenixcontact.com/pc/products/3032677>



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

 Max. current carrying capacity: 24 A

BTFE 6-3/7 2U - Test terminal strip

1029245

<https://www.phoenixcontact.com/pc/products/1029245>



FBS 10-8 BU - Plug-in bridge

3032606

<https://www.phoenixcontact.com/pc/products/3032606>



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

 Max. current carrying capacity: 24 A

TMT (EX6,2)R - Marker for terminal blocks

0803063

<https://www.phoenixcontact.com/pc/products/0803063>



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snapped, snap into flat marker groove, lettering field size: 6.2 x 50000 mm, Number of individual labels: 1

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<https://www.phoenixcontact.com/pc/products/1029245>



ZBF 8:UNBEDRUCKT - Zack Marker strip, flat

0808781

<https://www.phoenixcontact.com/pc/products/0808781>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

ZBF 8 CUS - Zack Marker strip, flat

0825030

<https://www.phoenixcontact.com/pc/products/0825030>



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: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

BTFE 6-3/7 2U - Test terminal strip

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ZBF 8,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0808804

<https://www.phoenixcontact.com/pc/products/0808804>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 101 ... 110, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

UC-TMF 8 - Marker for terminal blocks

0818137

<https://www.phoenixcontact.com/pc/products/0818137>



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 5.1 mm, Number of individual labels: 56

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UC-TMF 8 CUS - Marker for terminal blocks

0824654

<https://www.phoenixcontact.com/pc/products/0824654>



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: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

UCT-TMF 8 - Marker for terminal blocks

0828748

<https://www.phoenixcontact.com/pc/products/0828748>



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: 7.4 x 4.7 mm, Number of individual labels: 42

BTFE 6-3/7 2U - Test terminal strip

1029245

<https://www.phoenixcontact.com/pc/products/1029245>



UCT-TMF 8 CUS - Marker for terminal blocks

0829672

<https://www.phoenixcontact.com/pc/products/0829672>



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: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

FTP-3F/7 2U - Test plug

1029262

<https://www.phoenixcontact.com/pc/products/1029262>



Test plug, nom. voltage: 400 V, nominal current: 20 A, Rated cross section: 2.5 mm², color: gray

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FBP-3F 2U - Blind plug

1029275

<https://www.phoenixcontact.com/pc/products/1029275>

Blind plug, color: gray



US-TMF 100 - Marker for terminal blocks

0829260

<https://www.phoenixcontact.com/pc/products/0829260>

Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, snap into flat marker groove, lettering field size: 104 x 6.6 mm, Number of individual labels: 20



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PAI-4-N GY - Test adapter

3032871

<https://www.phoenixcontact.com/pc/products/3032871>



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

SF-PH 2-100 - Screwdriver

1212560

<https://www.phoenixcontact.com/pc/products/1212560>



Screwdriver, PH crosshead (lasered), uninsulated, size: PH 2 x 100, 2-component grip, with non-slip grip

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SF-PH 2-100 S-VDE - Screwdriver

1212694

<https://www.phoenixcontact.com/pc/products/1212694>



Screwdriver, crosshead PH (lasered), insulated, size: PH 2 x 100, 2-component handle, with non-slip grip

C-RCI 1,5/M3,5 - Ring cable lug

3240017

<https://www.phoenixcontact.com/pc/products/3240017>



Ring cable lug, red, 0.5 ... 1.5 mm², M3.5

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C-RCI 2,5/M3,5 - Ring cable lug

3240022

<https://www.phoenixcontact.com/pc/products/3240022>

Ring cable lug, blue, 1.5 ... 2.5 mm², M3.5



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