

BTFE 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>

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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 | 1029251 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BE06 |
| Product key | BE6113 |
| Catalog page | Page 650 (C-1-2019) |
| GTIN | 4055626531076 |
| Weight per piece (including packing) | 792.8 g |
| Weight per piece (excluding packing) | 792 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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1029251

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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 |
|-----------------------|-------------------|

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 |

Material specifications

| | |
|-------|------|
| Color | gray |
|-------|------|

BTFE 6-3/14 4U - Test terminal strip



1029251

<https://www.phoenixcontact.com/us/products/1029251>

| | |
|--|--------|
| 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 |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 2 kV |
| Result | Test passed |

Mechanical properties

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Mechanical tests

Mechanical strength

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Attachment on the carrier

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Test for conductor damage and slackening

| | |
|--------------------------------|------------------------------|
| 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

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 85 °C (max. short-term operating temperature RTI Elec.) |
| 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 |

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1029251

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| | |
|--|---------------|
| Permissible humidity (storage/transport) | 30 % ... 70 % |
|--|---------------|

Standards and regulations

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

Mounting

| | |
|---------------|---------------|
| Mounting type | Wall mounting |
|---------------|---------------|

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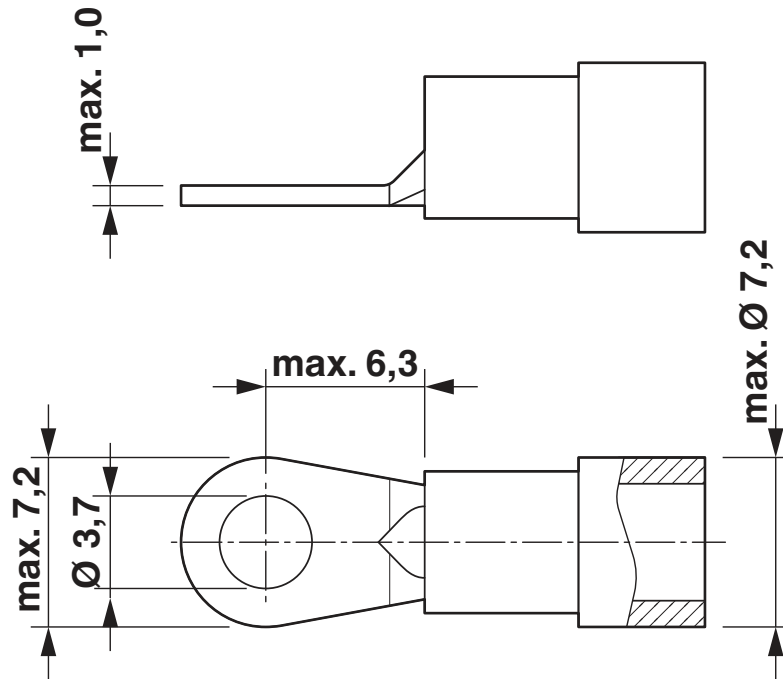
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<https://www.phoenixcontact.com/us/products/1029251>



Drawings

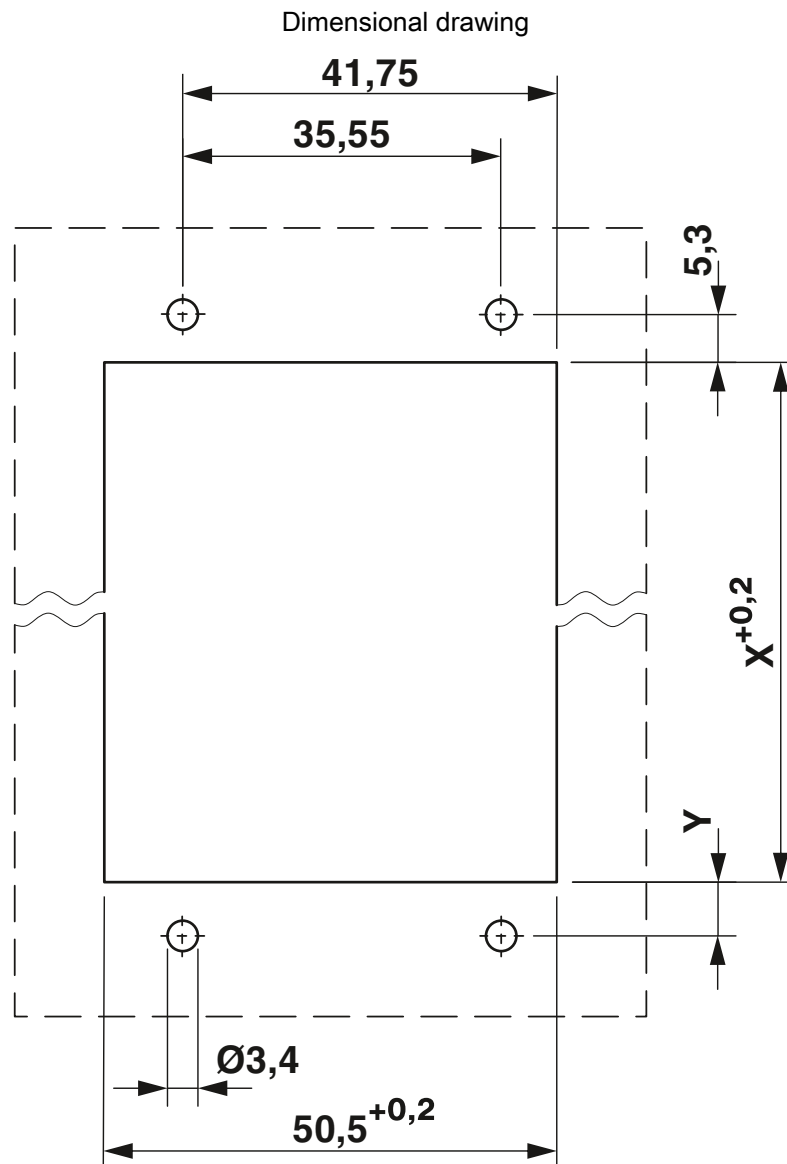
Dimensional drawing



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X = 156.6 mm

Y = 6.0 mm

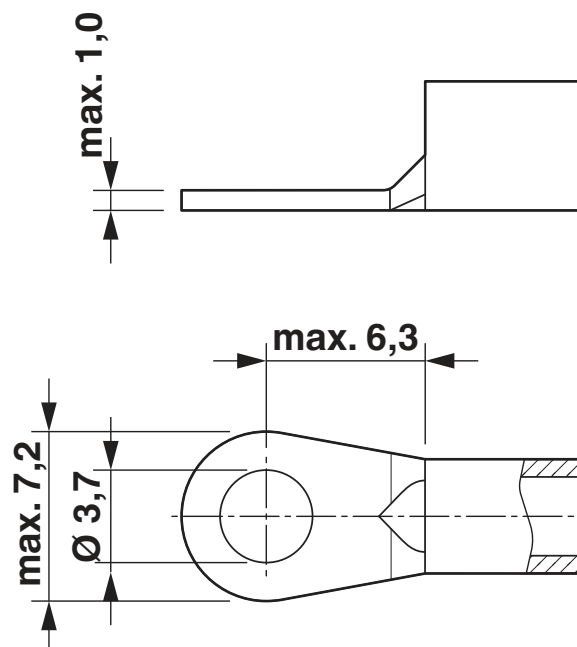
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Dimensional drawing



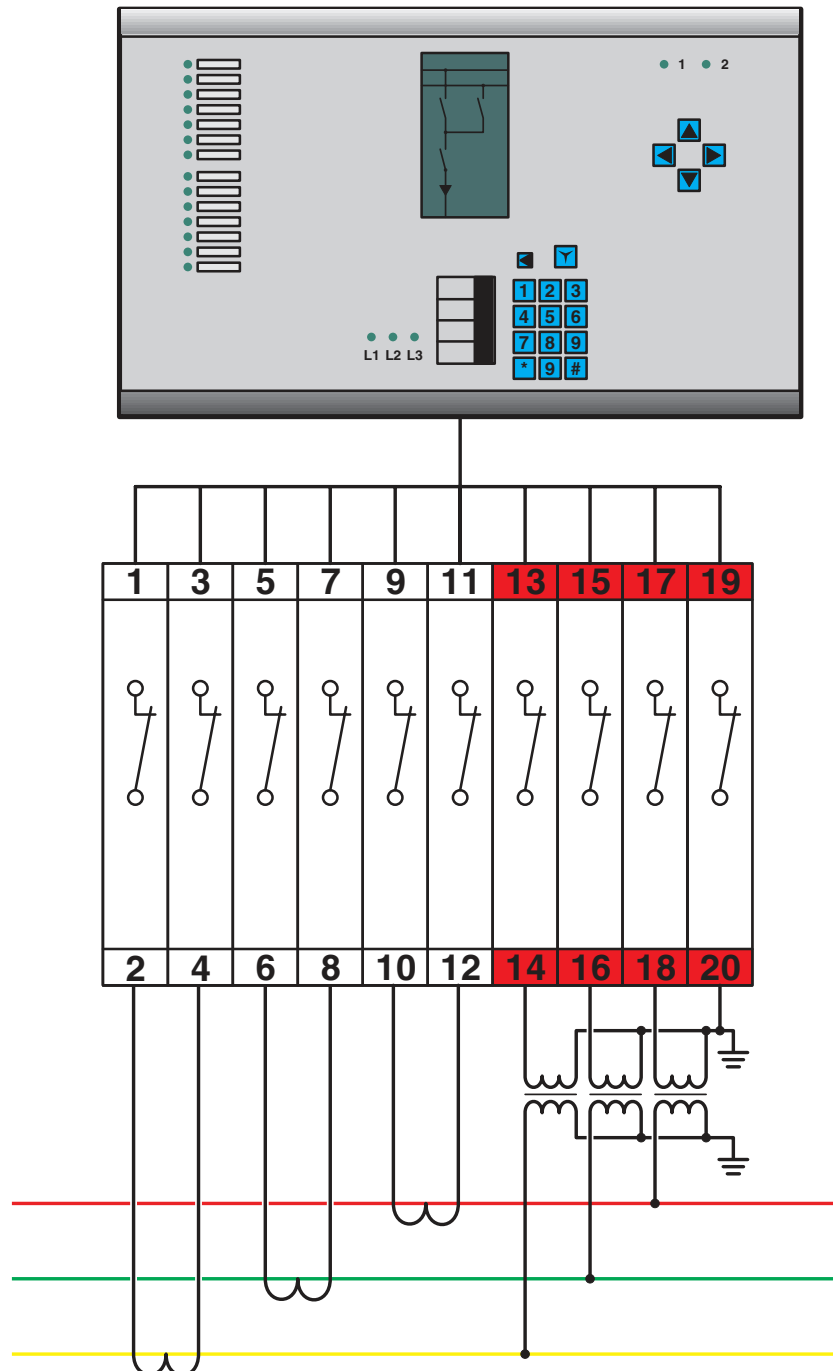
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Circuit diagram



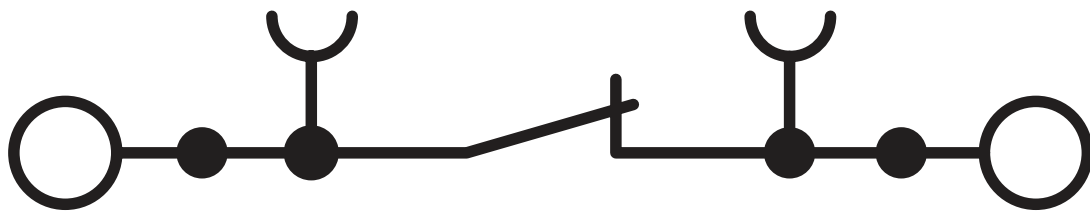
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Circuit diagram



BTFE 6-3/14 4U - Test terminal strip





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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1029251>

|  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

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC000902 |
|----------|----------|

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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Accessories

 Note: Applying some accessories below might limit this product.


FBS 2-8 - Plug-in bridge

3030284

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



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

 Max. current carrying capacity: 24 A

FBS 3-8 - Plug-in bridge

3030297

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

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<https://www.phoenixcontact.com/us/products/1029251>



FBS 4-8 - Plug-in bridge

3030307

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>



FBS 6-8 - Plug-in bridge

3032470

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>

FBS 1/3-8 - Plug-in bridge

3032363

<https://www.phoenixcontact.com/us/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/us/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 6-3/14 4U - Test terminal strip

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<https://www.phoenixcontact.com/us/products/1029251>



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

3032389

<https://www.phoenixcontact.com/us/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/us/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 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>



FBSR 5-8 - Plug-in bridge

3033809

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

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<https://www.phoenixcontact.com/us/products/1029251>




FBS 3-8 CT - Plug-in bridge

3033831

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

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FBS 10-8 CT - Plug-in bridge

3033833

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

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FBS 3-8 BU - Plug-in bridge

3032570

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>



FBS 5-8 BU - Plug-in bridge

3032596

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



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

 Max. current carrying capacity: 24 A

BTFE 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>




FBS 10-8 BU - Plug-in bridge

3032606

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



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

 Max. current carrying capacity: 24 A

FTP-3F/14 4U - Test plug

1029268

<https://www.phoenixcontact.com/us/products/1029268>



Test plug, nom. voltage: 400 V, nominal current: 20 A, number of positions: 14, connection method: Cable lug connection, Rated cross section: 2.5 mm², color: gray

BTFE 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>



FBP-3F 4U - Blind plug

1029279

<https://www.phoenixcontact.com/us/products/1029279>



Blind plug, color: gray

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

0803063

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

BTFE 6-3/14 4U - Test terminal strip

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US-TMF 100 - Marker for terminal blocks

0829260

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

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

BTFE 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>

SF-PH 2-100 - Screwdriver

1212560

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



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

SF-PH 2-100 S-VDE - Screwdriver

1212694

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



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

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1029251

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

3240017

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



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

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

3240022

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



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

BTFE 6-3/14 4U - Test terminal strip



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ZBF 8:UNBEDRUCKT - Zack Marker strip, flat

0808781

<https://www.phoenixcontact.com/us/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/us/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 6-3/14 4U - Test terminal strip

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

0808804

<https://www.phoenixcontact.com/us/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/us/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/us/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/us/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 6-3/14 4U - Test terminal strip

1029251

<https://www.phoenixcontact.com/us/products/1029251>



UCT-TMF 8 CUS - Marker for terminal blocks

0829672

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

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