

## Test terminal strip - BTFE 6-3/12 3U - 1029249

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Test terminal strip, nom. voltage: 400 V, nominal current: 24 A, connection method: Ring cable lug, color: gray, mounting type: Wall mounting

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 055626 531052 |
| GTIN         | 4055626531052                                                                                           |

### Technical data

#### General

|                                          |                                                                        |
|------------------------------------------|------------------------------------------------------------------------|
| Nominal cross section                    | 4 mm <sup>2</sup>                                                      |
| Color                                    | gray                                                                   |
| Insulating material                      | PC                                                                     |
| Flammability rating according to UL 94   | V0                                                                     |
| Rated surge voltage                      | 4 kV                                                                   |
| Test surge voltage                       | 5 kV                                                                   |
| Overvoltage category                     | III                                                                    |
| Insulating material group                | I                                                                      |
| Maximum load current                     | 24 A                                                                   |
| Nominal current I <sub>N</sub>           | 24 A                                                                   |
| Nominal voltage U <sub>N</sub>           | 400 V                                                                  |
| Open side panel                          | No                                                                     |
| Ambient temperature (operation)          | -60 °C ... 85 °C                                                       |
| Ambient temperature (storage/transport)  | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                          |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                        |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                        |

# Test terminal strip - BTFE 6-3/12 3U - 1029249

## Technical data

### General

|                                                                                           |                                     |
|-------------------------------------------------------------------------------------------|-------------------------------------|
| Shock protection test specification                                                       | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection                                                               | guaranteed                          |
| Result of surge voltage test                                                              | Test passed                         |
| Surge voltage test setpoint                                                               | 5 kV                                |
| Result of power-frequency withstand voltage test                                          | Test passed                         |
| Power frequency withstand voltage setpoint                                                | 2 kV                                |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed                         |
| Result of bending test                                                                    | Test passed                         |
| Bending test conductor cross section/weight                                               | 2.5 mm <sup>2</sup> / 0.7 kg        |
| Tensile test result                                                                       | Test passed                         |
| Conductor cross section tensile test                                                      | 2.5 mm <sup>2</sup>                 |
| Tractive force setpoint                                                                   | 50 N                                |
| Conductor cross section tensile test                                                      | 2 mm <sup>2</sup>                   |
| Tractive force setpoint                                                                   | 50 N                                |
| Result of tight fit on support                                                            | Test passed                         |
| Requirement temperature-rise test                                                         | 45 K                                |
| Short circuit stability result                                                            | Test passed                         |
| Result of thermal test                                                                    | Test passed                         |
| Ageing test for screwless modular terminal block temperature cycles                       | 192                                 |
| Result of aging test                                                                      | Test passed                         |
| Relative insulation material temperature index (Elec., UL 746 B)                          | 130 °C                              |

### Connection data

|                                             |                     |
|---------------------------------------------|---------------------|
| Connection                                  | 1 level             |
| Connection method                           | Ring cable lug      |
| Tightening torque, min                      | 1 Nm                |
| Tightening torque max                       | 1.3 Nm              |
| Connection in acc. with standard            | IEC 60947-7-1       |
| Conductor cross section flexible min.       | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.       | 6 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible  | 24                  |
| Max. AWG conductor cross section, flexible  | 10                  |
| Cable lug connection according to standard  | DIN 46237:1970-07   |
| Min. cross section for cable lug connection | 0.5 mm <sup>2</sup> |
| Max. cross section for cable lug connection | 2.5 mm <sup>2</sup> |
| Hole diameter, min.                         | 3.7 mm              |
| Cable lug width, max.                       | 6.8 mm              |
| Bolt diameter                               | 3.5 mm              |
| Min. cross section for cable lug connection | 4 mm <sup>2</sup>   |
| Max. cross section for cable lug connection | 6 mm <sup>2</sup>   |

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Technical data

#### Connection data

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Additional text           | Type RS PRO Order No. 267-3919, vertical crimping |
| Hole diameter, min.       | 3.7 mm                                            |
| Cable lug width, max.     | 7.2 mm                                            |
| Bolt diameter             | 3.5 mm                                            |
| Internal cylindrical gage | A5                                                |

#### Mounting

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

#### Standards and Regulations

|                                        |               |
|----------------------------------------|---------------|
| Connection in acc. with standard       | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0            |

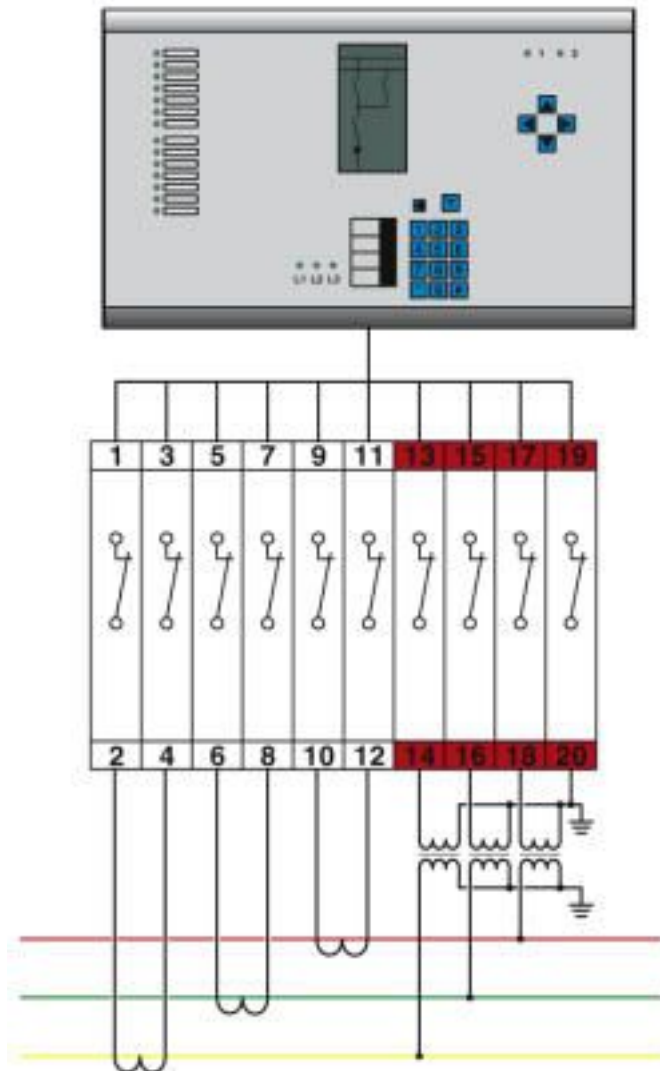
#### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### Drawings

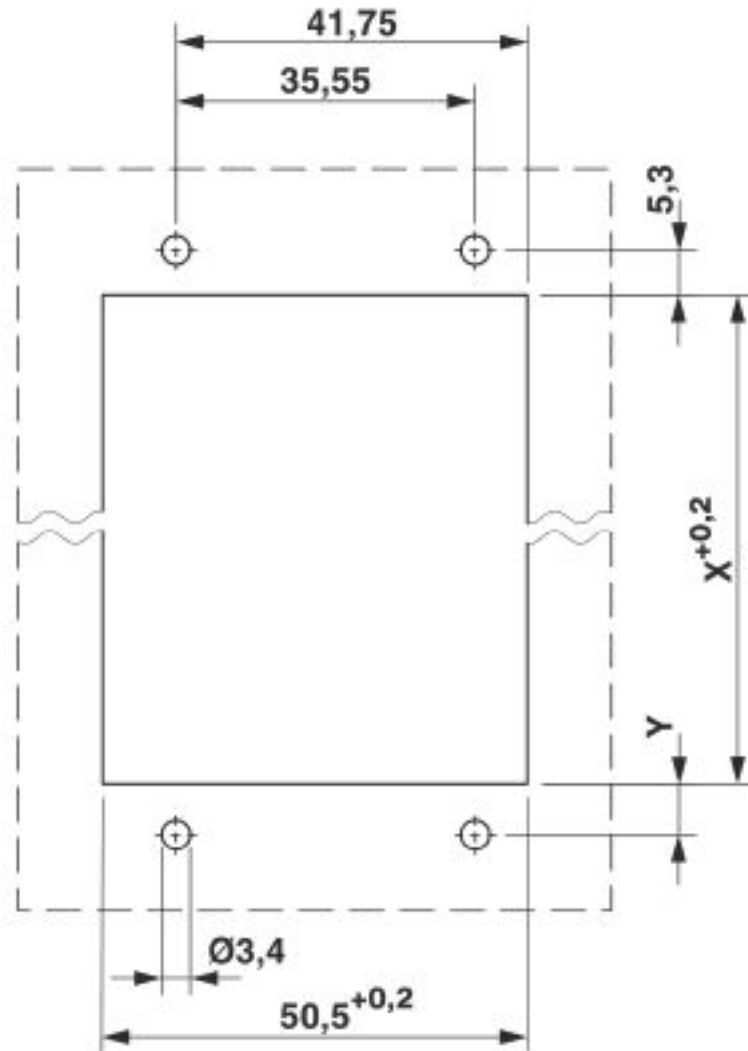
## Test terminal strip - BTFE 6-3/12 3U - 1029249

Circuit diagram



## Test terminal strip - BTFE 6-3/12 3U - 1029249

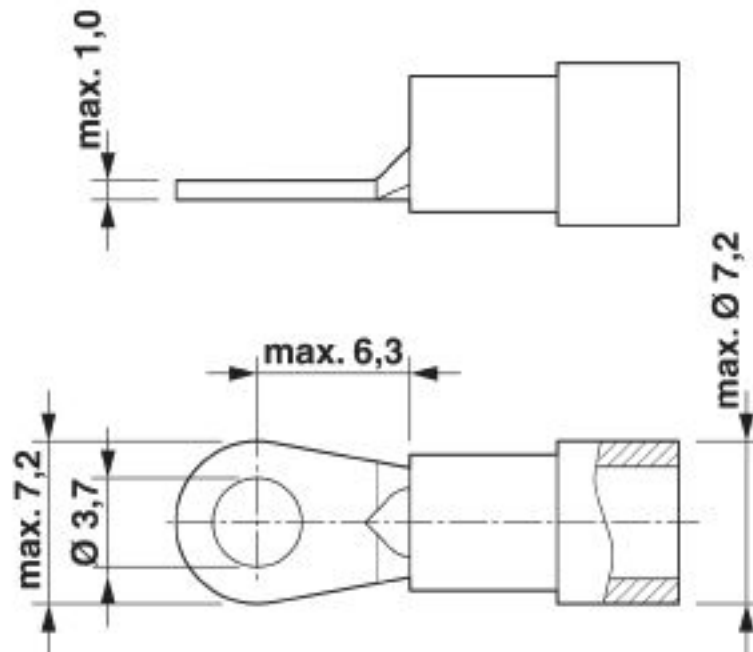
Dimensional drawing



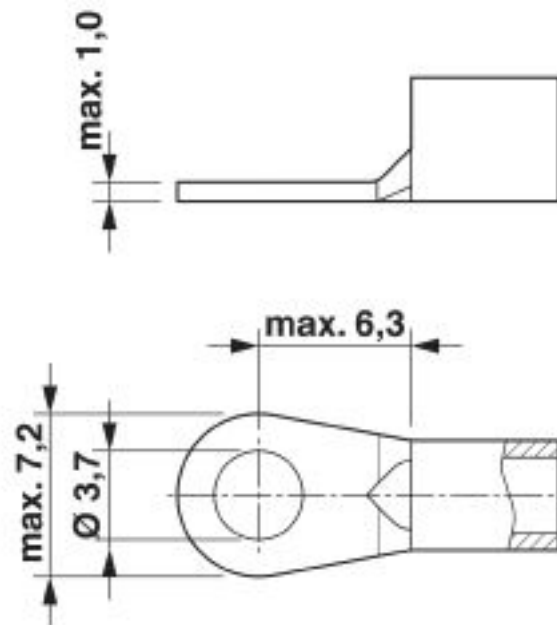
X = 112.0 mm  
Y = 5.3 mm

## Test terminal strip - BTFE 6-3/12 3U - 1029249

Dimensional drawing



Dimensional drawing



## Test terminal strip - BTFE 6-3/12 3U - 1029249

Circuit diagram



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141126 |
| eCl@ss 4.0    | 27141118 |
| eCl@ss 4.1    | 27141118 |
| eCl@ss 5.0    | 27141118 |
| eCl@ss 5.1    | 27141100 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141126 |
| eCl@ss 8.0    | 27141126 |
| eCl@ss 9.0    | 27141126 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000902 |
| ETIM 6.0 | EC000902 |
| ETIM 7.0 | EC000902 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

### Accessories

#### Accessories

Blind plug

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

Dummy plug - FBP-3F 3U - 1029276



Dummy plug, color: gray

---

### Connector

Ring cable lug - C-RCI 1,5/M3,5 - 3240017



Ring cable lug, red, 0.5 ... 1.5 mm<sup>2</sup>, M3.5

---

Ring cable lug - C-RCI 2,5/M3,5 - 3240022



Ring cable lug, blue, 1.5 ... 2.5 mm<sup>2</sup>, M3.5

---

### Jumper

Plug-in bridge - FBS 2-8 - 3030284



Plug-in bridge, pitch: 8.2 mm, width: 14.7 mm, number of positions: 2, color: red

---

Plug-in bridge - FBS 3-8 - 3030297



Plug-in bridge, pitch: 8.2 mm, width: 22.9 mm, number of positions: 3, color: red

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

Plug-in bridge - FBS 4-8 - 3030307



Plug-in bridge, pitch: 8.2 mm, width: 31.1 mm, number of positions: 4, color: red

---

Plug-in bridge - FBS 5-8 - 3030310



Plug-in bridge, pitch: 8.2 mm, width: 39.3 mm, number of positions: 5, color: red

---

Plug-in bridge - FBS 6-8 - 3032470



Plug-in bridge, pitch: 8.2 mm, width: 47.5 mm, number of positions: 6, color: red

---

Plug-in bridge - FBS 10-8 - 3030323



Plug-in bridge, pitch: 8.2 mm, width: 80.3 mm, number of positions: 10, color: red

---

Plug-in bridge - FBS 1/3-8 - 3032363



Plug-in bridge, pitch: 8.2 mm, width: 22.9 mm, number of positions: 3, pin assignment: 1,3, color: red

---

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

Plug-in bridge - FBS 1/4-8 - 3032376



Plug-in bridge, pitch: 8.2 mm, width: 31.1 mm, number of positions: 4, pin assignment: 1, 4, color: red

---

Plug-in bridge - FBS 1/3/5-8 - 3032389



Plug-in bridge, pitch: 8.2 mm, width: 39.3 mm, number of positions: 5, pin assignment: 1,3,5, color: red

---

Plug-in bridge - FBS 1/4/7/10-8 - 3032402



Plug-in bridge, pitch: 8.2 mm, width: 80.3 mm, number of positions: 10, pin assignment: 1,4,7,10, color: red

---

Plug-in bridge - FBSR 5-8 - 3033809



Plug-in bridge, pitch: 8.2 mm, width: 39.3 mm, number of positions: 5, color: red

---

Plug-in bridge - FBS 2-8 CT - 3033830



Plug-in bridge, pitch: 8.2 mm, width: 14.7 mm, number of positions: 2, color: orange

---

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

Plug-in bridge - FBS 3-8 CT - 3033831



Plug-in bridge, pitch: 8.2 mm, width: 22.9 mm, number of positions: 3, color: orange

---

Plug-in bridge - FBS 4-8 CT - 3033832



Plug-in bridge, pitch: 8.2 mm, width: 31.1 mm, number of positions: 4, color: orange

---

Plug-in bridge - FBS 10-8 CT - 3033833



Plug-in bridge, pitch: 8.2 mm, width: 80.3 mm, number of positions: 10, color: orange

---

Plug-in bridge - FBS 2-8 BU - 3032567



Plug-in bridge, pitch: 8.2 mm, width: 14.7 mm, number of positions: 2, color: blue

---

Plug-in bridge - FBS 3-8 BU - 3032570



Plug-in bridge, pitch: 8.2 mm, width: 22.9 mm, number of positions: 3, color: blue

---

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

Plug-in bridge - FBS 4-8 BU - 3032583



Plug-in bridge, pitch: 8.2 mm, width: 31.1 mm, number of positions: 4, color: blue

---

Plug-in bridge - FBS 5-8 BU - 3032596



Plug-in bridge, pitch: 8.2 mm, width: 39.3 mm, number of positions: 5, color: blue

---

Plug-in bridge - FBS 6-8 BU - 3032677



Plug-in bridge, pitch: 8.2 mm, width: 47.5 mm, number of positions: 6, color: blue

---

Plug-in bridge - FBS 10-8 BU - 3032606



Plug-in bridge, pitch: 8.2 mm, width: 80.3 mm, number of positions: 10, color: blue

---

### Labeled terminal marker

Zack Marker strip, flat - ZBF 8 CUS - 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

---

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

Zack Marker strip, flat - ZBF 8,LGS:FORTL.ZAHLEN - 0808804



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 101 ... 110, 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

---

Marker for terminal blocks - UC-TMF 8 CUS - 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

---

Marker for terminal blocks - UCT-TMF 8 CUS - 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

---

### Screwdriver tools

Philips screwdriver - SF-PH 2-100 - 1212560



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

---

Philips screwdriver - SF-PH 2-100 S-VDE - 1212694



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

---

### Terminal marking

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

#### Marker for terminal blocks - TMT (EX6,2)R - 0803063



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 50000 mm, lettering field size: 6.2 x 50,000 mm, Number of individual labels: 1

---

#### Marker for terminal blocks - US-TMF 100 - 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: snap into universal marker groove, snap into flat marker groove, lettering field size: 104 x 6.6 mm, Number of individual labels: 20

---

#### Zack Marker strip, flat - ZBF 8:UNBEDRUCKT - 0808781



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, 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

---

#### Marker for terminal blocks - UC-TMF 8 - 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: 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

---

#### Marker for terminal blocks - UCT-TMF 8 - 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: 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

---

### Test plug terminal block

## Test terminal strip - BTFE 6-3/12 3U - 1029249

### Accessories

Test plug - FTP-3F/12 3U - 1029267



Test plug, nom. voltage: 400 V, nominal current: 20 A, color: gray

---

### Test socket

Test adapter - PAI-4-N GY - 3032871



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

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

**PHOENIX CONTACT GmbH & Co. KG**  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1029249](#)