# FTP 3+1 - Test plug

3069222

https://www.phoenixcontact.com/us/products/3069222

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Test plug, nom. voltage: 400 V, nominal current: 24 A, connection method: Screw connection, cross section: 0.5 mm$^2$ - 2.5 mm$^2$ , color: gray



## Your advantages

- The test blocks can be used universally for voltage transducers and current transformers
- The robust test plug guarantees user-friendly handling and provides fixing options for the test cables to be connected<br/>
- The integrated, robust switch contact is designed for the most stringent demands, and the use of high-quality materials ensures the transmission of signal currents, even after multiple actuations

## Commercial data

| | |
|---|---|
| Item number | 3069222 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BE06 |
| Product key | BE6111 |
| GTIN | 4055626114842 |
| Weight per piece (including packing) | 282.8 g |
| Weight per piece (excluding packing) | 250 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Test plug terminal block |
| Product family | FAME 1 |
| Number of positions | 4 |
| Pitch | 8.2 mm |
| Number of rows | 1 |
| Potentials | 4 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |

### Electrical properties

| | |
|---|---|
| Maximum load current | 24 A |
| Rated surge voltage | 4 kV |
| Maximum power dissipation for nominal condition | 1.31 W |
| Test surge voltage | 5 kV |

### Connection data

| | |
|---|---|
| Nominal cross section | 6 mm² |
| Maximum load current | 24 A |
| Test socket torque | 0.5 |
| Connection method | Screw connection |
| Note | The conductor cross-section depends on the cable lug used |
| Conductor cross-section rigid | 0.5 mm² ... 2.5 mm² |
| Cross section AWG | 20 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 2.5 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 14 (converted acc. to IEC) |
| Nominal current | 24 A |
| Nominal voltage | 400 V |

### Dimensions

| | |
|---|---|
| Pin diameter | 5.7 mm |
| Pitch | 8.2 mm |

### Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| 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

| | |
|---|---|
| Test voltage setpoint | 4.8 kV |
| Result | Test passed |

### Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 4 mm² | 300 A |
| | 500 A |
| | 1250 A |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 1.89 kV |
| Result | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

| | |
|---|---|
| DIN rail/fixing support | Panel cutout |
| Test force setpoint | 5 N |
| Result | Test passed |

### Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.2 mm² / 0.2 kg |
| | 6 mm² / 1.4 kg |

| | |
|---|---|
| | 10 mm² / 2 kg |
| Result | Test passed |

## Environmental and real-life conditions

Service life

| | |
|---|---|
| Insertion/withdrawal cycles | 500 |

Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| ASD level | 1.857 (m/s²)²/Hz |
| Acceleration | 0.8g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| 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

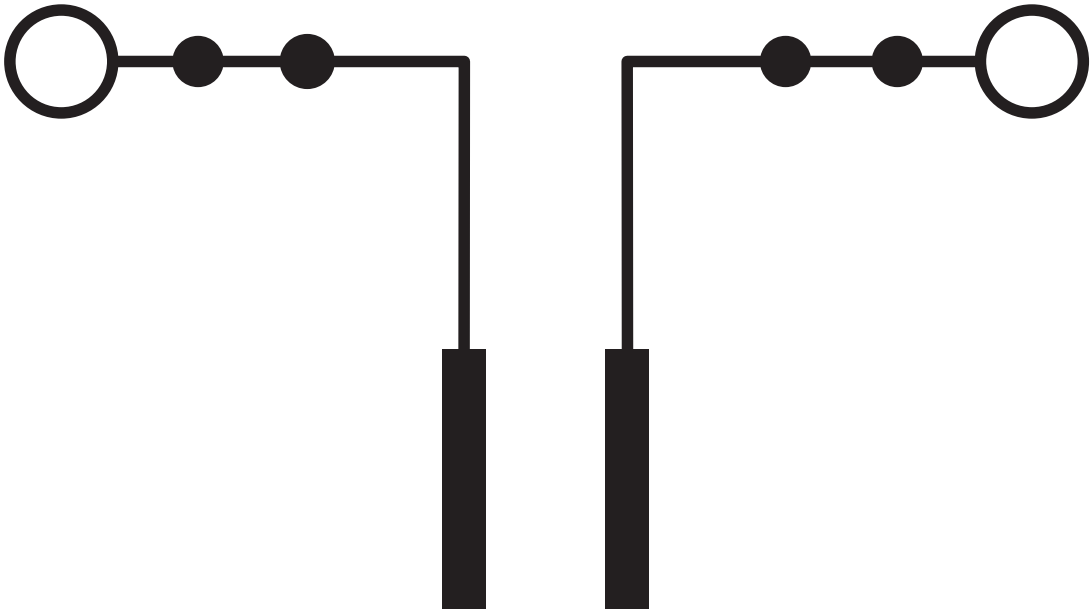
| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 105 °C (max. short-term operating temperature RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Mounting

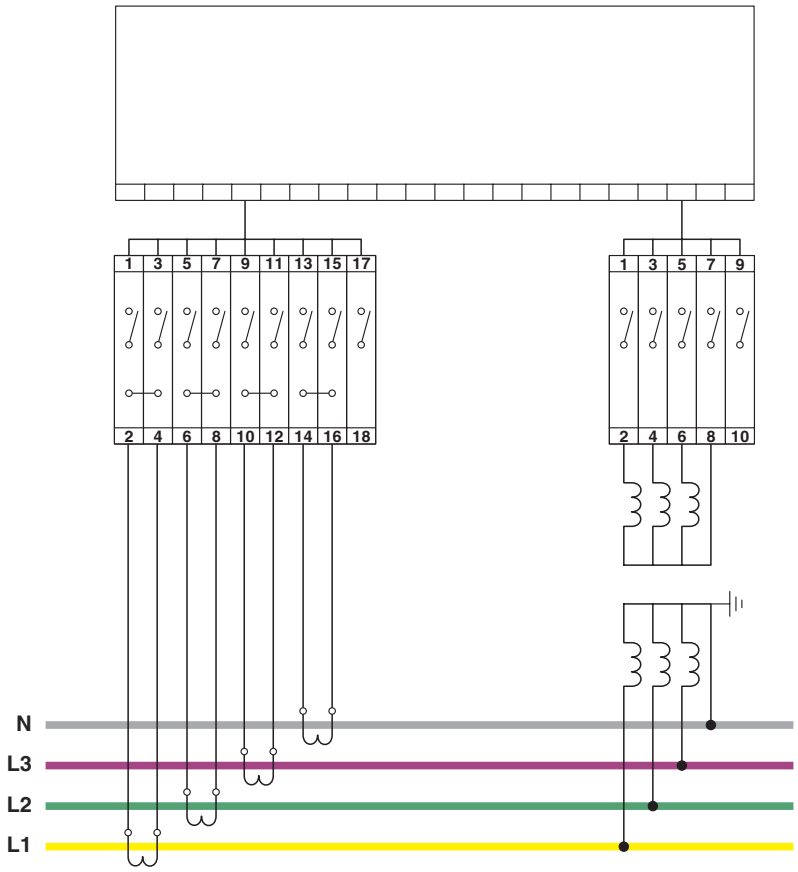
| | |
|---|---|
| Mounting type | Insertion in base strip |

## Drawings

Circuit diagram



## Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3069222

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| F | | | | |
| | 400 V | 31 A | - | - |

**CSA**
Approval ID: 13631

**EAC**
Approval ID: KZ7500651131219505

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-15.0 | 27250304 |
| ECLASS-13.0 | 27250304 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002555 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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