# GTF 76/230 - Disconnect terminal block

3121012

https://www.phoenixcontact.com/gb/products/3121012

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Disconnect terminal block, nom. voltage: 250 V, nominal current: 41 A, 1 level, connection method: Screw connection, Rated cross section: 6 $mm^2$, cross section: 0.5 $mm^2$ - 10 $mm^2$, mounting: NS 35/7,5, NS 35/15, NS 32, color: gray

## Your advantages

- When the disconnect slide is closed, switch position "on", the yellow light indicates grounded normal operation
- Once the disconnect slide has been opened to the "off" position, the red light indicates whether there is a ground fault in the control circuit

## Commercial data

| | |
|---|---|
| Item number | 3121012 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | BE1131 |
| Product key | BE1131 |
| GTIN | 4017918092917 |
| Weight per piece (including packing) | 60.7 g |
| Weight per piece (excluding packing) | 61.42 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Disconnect terminal block |
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 4 kV |
| Maximum power dissipation for nominal condition | 1.31 W |
| LED voltage range | 110 V AC ... 250 V AC |
| LED current range | 0.5 mA ... 1 mA |

### Input data

| | |
|---|---|
| LED voltage range | 110 V AC ... 250 V AC |

### Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 6 mm² |

1 level

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M4 |
| Tightening torque | 1.2 ... 1.5 Nm |
| Stripping length | 12 mm |
| Internal cylindrical gage | A5 |
| Conductor cross-section rigid | 0.5 mm² ... 10 mm² |
| Cross section AWG | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 6 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |
| 2 conductors with same cross section, rigid | 0.5 mm² ... 6 mm² |
| 2 conductors with same cross section, flexible | 0.5 mm² ... 6 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm² ... 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 4 mm² |
| Nominal cross section | 6 mm² |
| Nominal current | 41 A |

| | |
|---|---|
| Maximum load current | 57 A |
| Nominal voltage | 250 V |
| | 110 V |

## Dimensions

| | |
|---|---|
| Width | 22.5 mm |
| Height | 64.5 mm |
| Depth on NS 15 | 53.5 mm |
| Depth on NS 32 | 59 mm |
| Depth on NS 35/7,5 | 54 mm |
| Depth on NS 35/15 | 61.5 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)) | 130 °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) | 28 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 |

## Mechanical properties

Mechanical data

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

## Environmental and real-life conditions

Ambient conditions

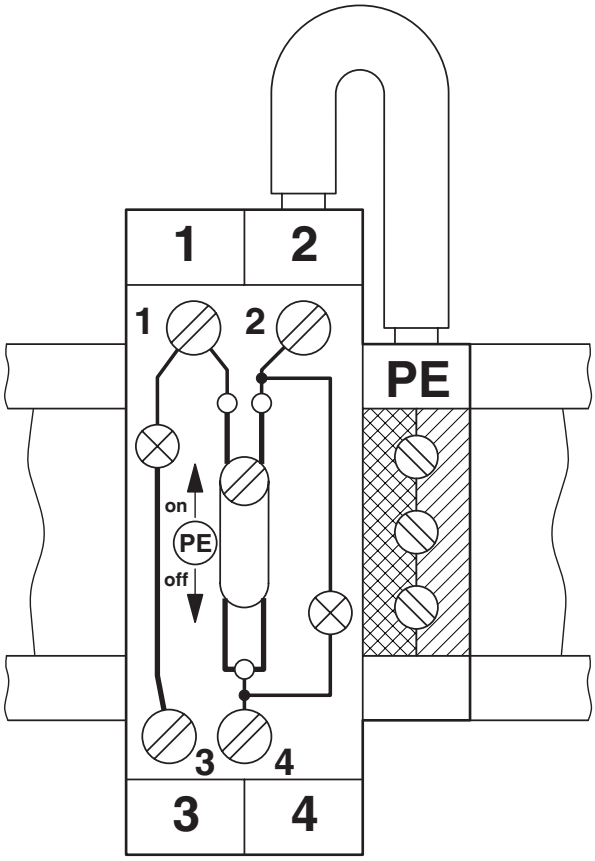
| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Mounting

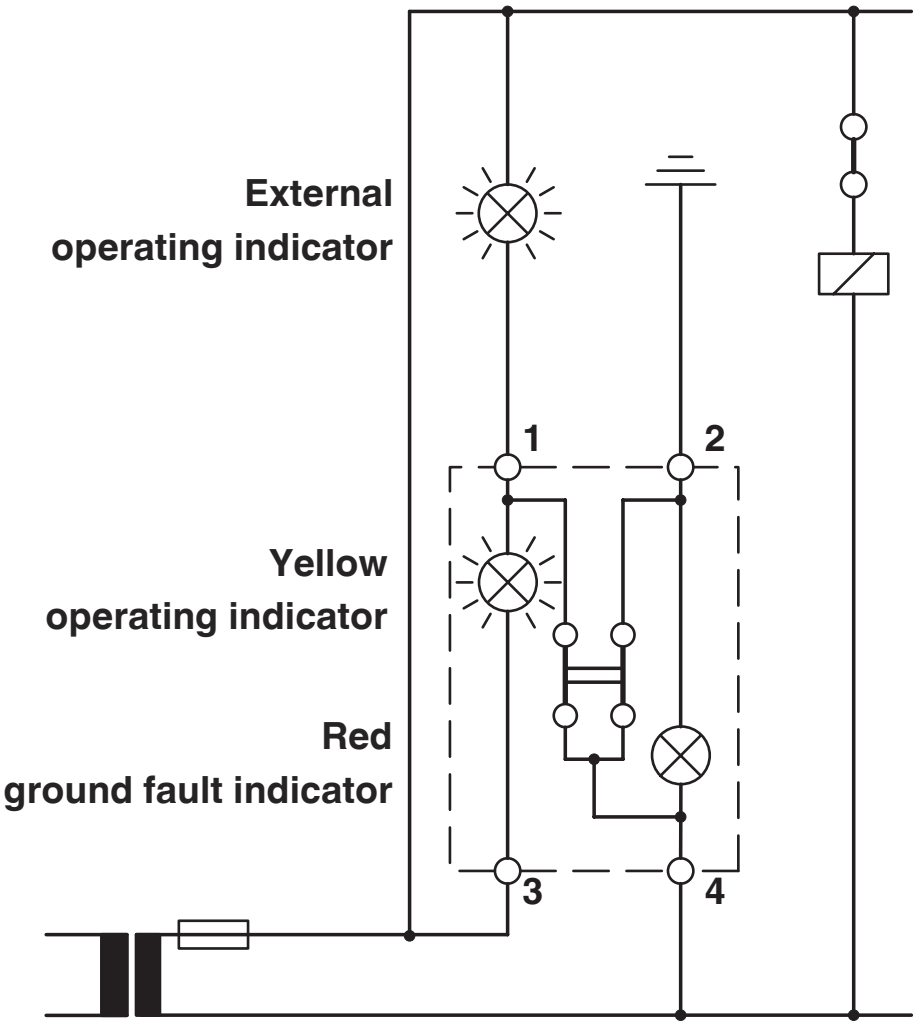
| | |
|---|---|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |
| | NS 32 |
| | NS 15 |

## Drawings

Schematic diagram

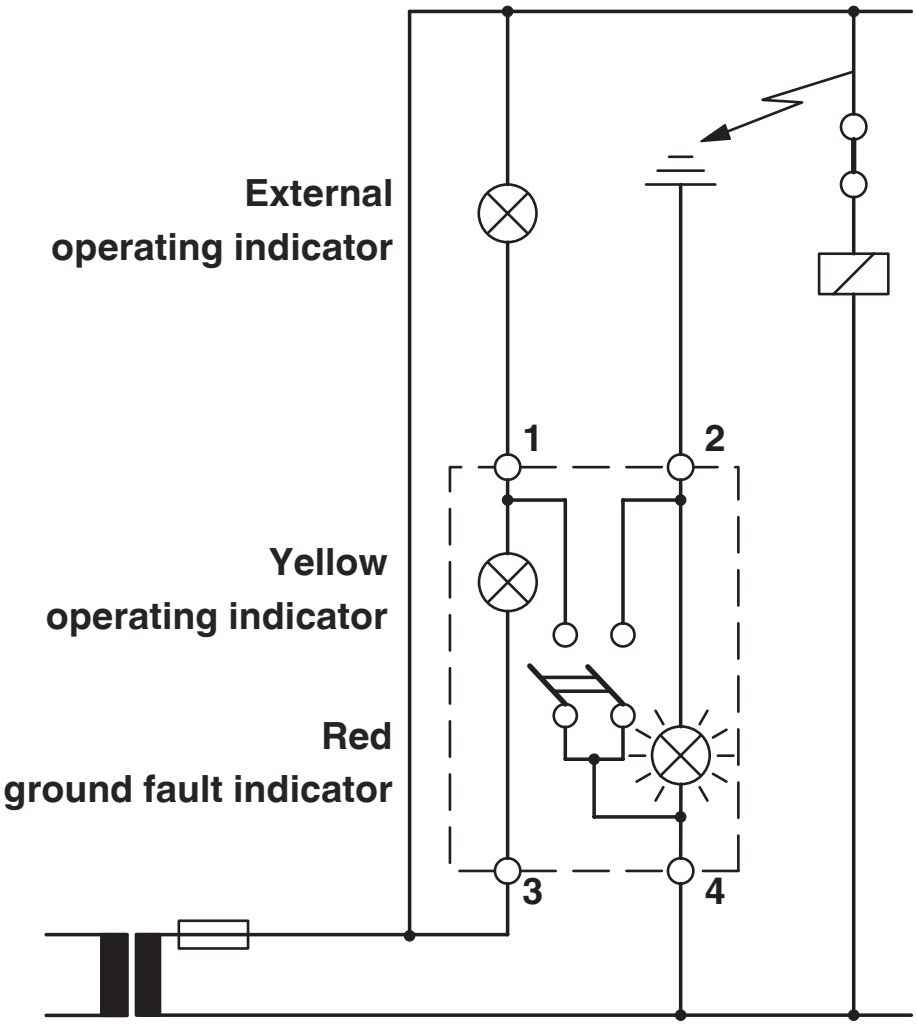


Circuit diagram




Grounded operating state

Circuit diagram




Ground fault

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/3121012

**EAC**
Approval ID: KZ7500651131219505

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 250 V | 50 A | 26 - 8 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250108 |
| ECLASS-15.0 | 27250108 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000902 |

### 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.038 kg CO2e |


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