

# GTF 76/230 - Disconnect terminal block



3121012

<https://www.phoenixcontact.com/us/products/3121012>

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 documentation. Our general terms of use for downloads are valid.



Disconnect terminal block, nom. voltage: 250 V, nominal current: 41 A, 1 level, connection method: Screw connection, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, 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               | 1 pc          |
| Sales key                            | BE01          |
| Product key                          | BE1131        |
| GTIN                                 | 4017918092917 |
| Weight per piece (including packing) | 61.42 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 mm <sup>2</sup> |

#### 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 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Cross section AWG   | 20 ... 8 (converted acc. to IEC)           |
| Conductor cross-section flexible  | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Conductor cross-section, flexible [AWG]   | 20 ... 10 (converted acc. to IEC)          |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with same cross section, rigid   | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible  | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Nominal cross section   | 6 mm <sup>2</sup>                          |
| Nominal current   | 41 A                                       |

# GTF 76/230 - Disconnect terminal block



3121012

<https://www.phoenixcontact.com/us/products/3121012>

|                      |       |
|----------------------|-------|
| 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 %  |

# GTF 76/230 - Disconnect terminal block



3121012

<https://www.phoenixcontact.com/us/products/3121012>

## Mounting

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

# GTF 76/230 - Disconnect terminal block

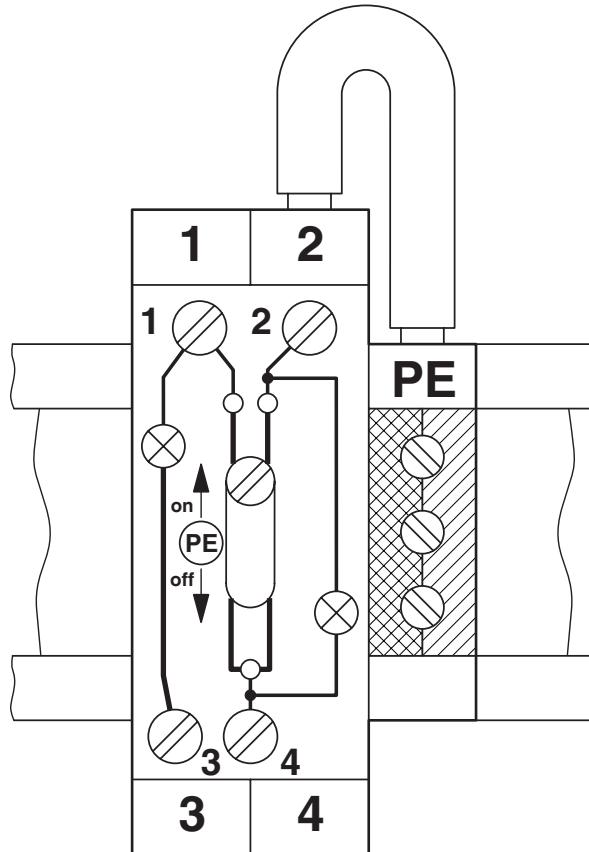


3121012

<https://www.phoenixcontact.com/us/products/3121012>

## Drawings

Schematic diagram

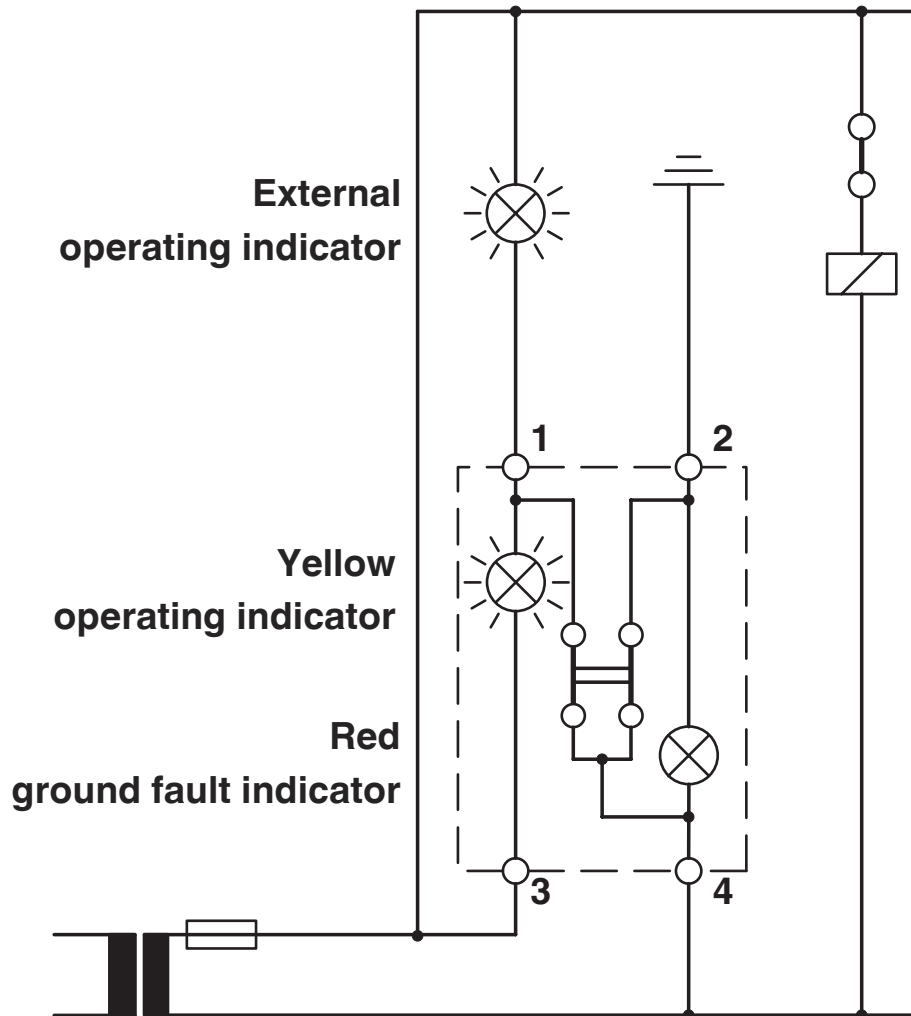


# GTF 76/230 - Disconnect terminal block

3121012

<https://www.phoenixcontact.com/us/products/3121012>

Circuit diagram



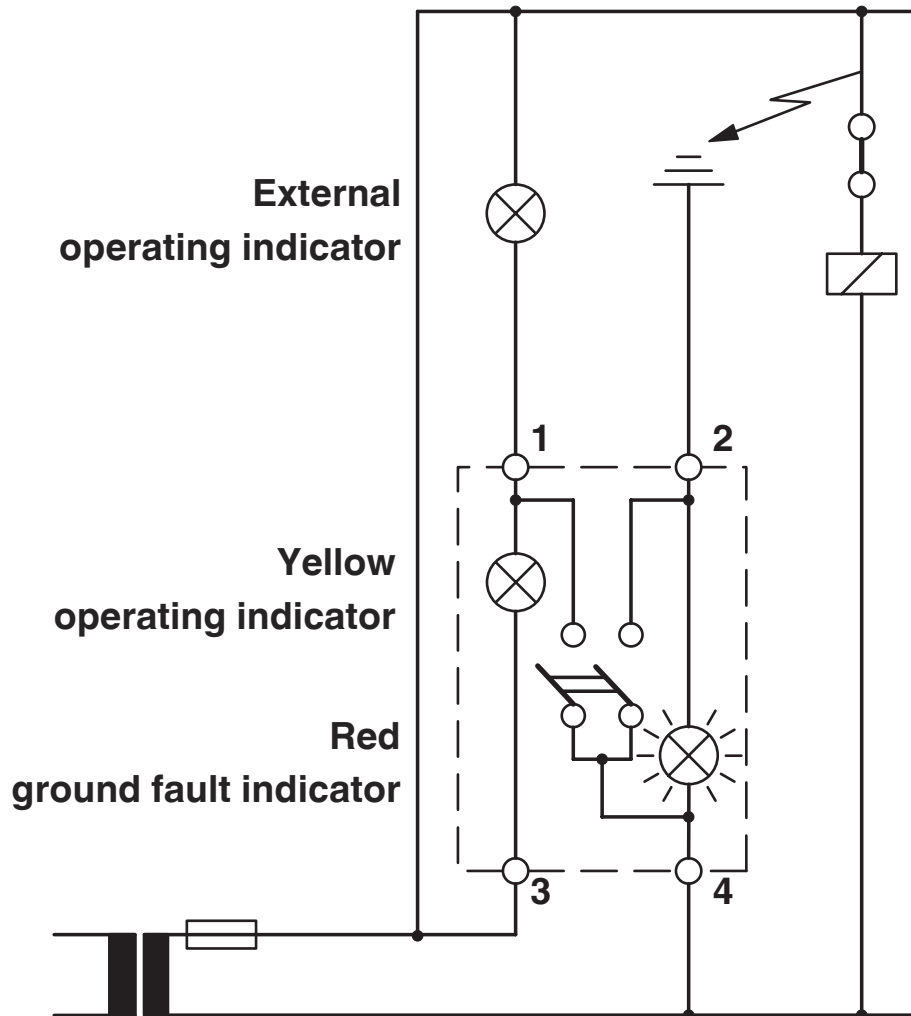
Grounded operating state

# GTF 76/230 - Disconnect terminal block

3121012

<https://www.phoenixcontact.com/us/products/3121012>

Circuit diagram



Ground fault

# GTF 76/230 - Disconnect terminal block



3121012

<https://www.phoenixcontact.com/us/products/3121012>

## Approvals

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



**EAC**

Approval ID: KZ7500651131219505



**cULus Recognized**

Approval ID: E60425

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

# GTF 76/230 - Disconnect terminal block



3121012

<https://www.phoenixcontact.com/us/products/3121012>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# GTF 76/230 - Disconnect terminal block



3121012

<https://www.phoenixcontact.com/us/products/3121012>

## 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 |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)