

1068179  
<https://www.phoenixcontact.com/gb/products/1068179>

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Disconnect terminal block, nom. voltage: 1000 V, nominal current: 32 A, connection method: Push-in 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: orange

Your advantages

- The compact design and front connection enable wiring in a confined space<br/>
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1068179       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE2231        |
| Product key                          | BE2231        |
| GTIN                                 | 4055626740607 |
| Weight per piece (including packing) | 33.89 g       |
| Weight per piece (excluding packing) | 32.2 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

# PT 6-T P/P HV OG - Disconnect terminal block



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## Technical data

### Notes

#### General

|      |                                                                                                                                              |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Note | With a free-hanging connection, the user has to take care that the required distances to electrically conductive surfaces are complied with. |
|      | Nominal current and maximum load current see derating curve.                                                                                 |

### 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                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.31 W |

### Connection data

|                                                                                           |                                                                                                                       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Number of connections per level                                                           | 2                                                                                                                     |
| Nominal cross section                                                                     | 6 mm <sup>2</sup>                                                                                                     |
| Stripping length                                                                          | 10 mm ... 12 mm                                                                                                       |
| Internal cylindrical gage                                                                 | A5                                                                                                                    |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                                                                                         |
| 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> ... 10 mm <sup>2</sup>                                                                            |
| Conductor cross section, flexible [AWG]                                                   | 20 ... 8 (converted acc. to IEC)                                                                                      |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                                                            |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                                                            |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> When using TWIN ferrules, we recommend a minimum ferrule length of 13 mm. |
| Nominal current                                                                           | 32 A                                                                                                                  |
| Maximum load current                                                                      | 32 A (with 10 mm <sup>2</sup> conductor cross section, rigid)                                                         |
| Nominal voltage                                                                           | 1000 V                                                                                                                |
| Nominal cross section                                                                     | 6 mm <sup>2</sup>                                                                                                     |

#### Connection cross sections directly pluggable

|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| Conductor cross section rigid                                     | 1 mm <sup>2</sup> ... 10 mm <sup>2</sup>  |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |

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|                                                                |                                           |
|----------------------------------------------------------------|-------------------------------------------|
| Flexible conductor cross section (ferrule with plastic sleeve) | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
|----------------------------------------------------------------|-------------------------------------------|

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 10 mm   |
| Height             | 91 mm   |
| Depth              | 63.1 mm |
| Depth on NS 32     | 69.3 mm |
| Depth on NS 35/7,5 | 64.3 mm |
| Depth on NS 35/15  | 71.8 mm |

## Material specifications

|                                                                  |                   |
|------------------------------------------------------------------|-------------------|
| Color                                                            | orange (RAL 2003) |
| Flammability rating according to UL 94                           | V0                |
| Insulating material group                                        | I                 |
| Insulating material                                              | PA                |
| Static insulating material application in cold                   | -60 °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            |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|                                                |                                |
|------------------------------------------------|--------------------------------|
| Requirement temperature-rise test              | Increase in temperature ≤ 45 K |
| Result                                         | Test passed                    |
| Short-time withstand current 4 mm <sup>2</sup> | 0.48 kA                        |
| Result                                         | Test passed                    |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV      |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

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|                             |     |
|-----------------------------|-----|
| Insertion/withdrawal cycles | 250 |
|-----------------------------|-----|

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 5 N         |
| Result                  | Test passed |

### Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.5 mm <sup>2</sup> / 0.3 kg |
|                                | 6 mm <sup>2</sup> / 1.4 kg   |
|                                | 10 mm <sup>2</sup> / 2 kg    |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Service life

|                             |    |
|-----------------------------|----|
| Insertion/withdrawal cycles | 50 |
|-----------------------------|----|

### Aging

|                    |             |
|--------------------|-------------|
| Temperature cycles | 192         |
| Result             | Test passed |

### Needle-flame test

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

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                |                                     |
|----------------|-------------------------------------|
| Specification  | DIN EN 50155 (VDE 0115-200):2018-05 |
| Pulse shape    | Half-sine                           |
| Acceleration   | 30g                                 |
| Shock duration | 18 ms                               |

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|                                |                                   |
|--------------------------------|-----------------------------------|
| 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 ... 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 %                                                                                                                |

## Standards and regulations

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

## Mounting

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

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## Drawings

Circuit diagram



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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000902 |
|----------|----------|

### UNSPSC

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

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## 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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