

# PP-H 6/ 3 - Plug

3061583

<https://www.phoenixcontact.com/us/products/3061583>



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Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 3, number of positions: 3, connection method: Push-in connection, Rated cross section: 6 mm<sup>2</sup>, 1 level, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, color: gray

## Your advantages

- Large-surface labeling option
- The Push-in technology COMBI plugs for self-assembly provide solutions that users can implement themselves
- Tested for railway applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3061583       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2244        |
| GTIN                                 | 4046356650229 |
| Weight per piece (including packing) | 22.66 g       |
| Weight per piece (excluding packing) | 22.66 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

## Technical data

### Notes

|                    |                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | COMBI connectors are connectors without switching power in accordance with IEC 61984 and can be connected or disconnected without load or voltage when used as intended |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                       |                   |
|-----------------------|-------------------|
| Product type          | Terminal plug     |
| Area of application   | Railway industry  |
|                       | Machine building  |
|                       | Plant engineering |
| Number of positions   | 3                 |
| Pitch                 | 8.2 mm            |
| Number of connections | 3                 |
| Number of rows        | 1                 |
| Potentials            | 3                 |

### 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 | 3                 |
| Nominal cross section           | 6 mm <sup>2</sup> |

#### 1 level

|                                                                                                                   |                                             |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Connection method                                                                                                 | Push-in connection                          |
| Stripping length                                                                                                  | 12 mm                                       |
| Internal cylindrical gage                                                                                         | A5                                          |
| Connection in acc. with standard                                                                                  | IEC 61984                                   |
| 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> ... 6 mm <sup>2</sup>   |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve                         | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Nominal current                                                                                                   | 41 A                                        |

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|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Maximum load current  | 41 A (with 6 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage       | 1000 V                                                |
| Nominal cross section | 6 mm <sup>2</sup>                                     |

## 1 level 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 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 1 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |

## Dimensions

|        |         |
|--------|---------|
| Width  | 24.6 mm |
| Height | 21 mm   |
| Depth  | 49.3 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)) | 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 (max. operating temperature see derating curve)                    |
| 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                                                           |

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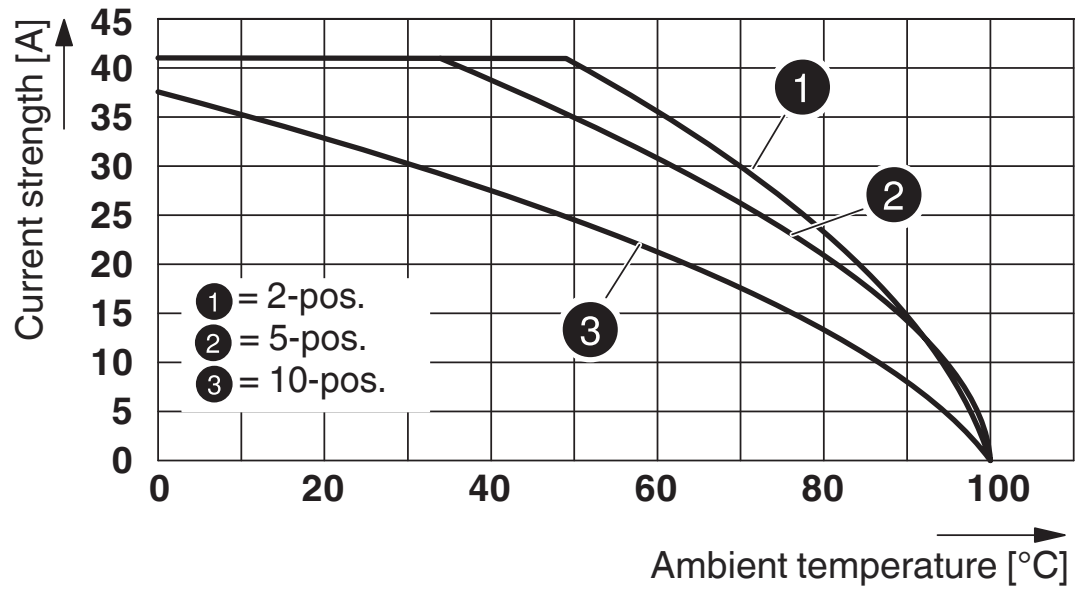
|                                          |               |
|------------------------------------------|---------------|
| Permissible humidity (operation)         | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

|                                  |           |
|----------------------------------|-----------|
| Connection in acc. with standard | IEC 61984 |
|----------------------------------|-----------|

## Drawings

Diagram



Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3061583>

| CSA<br>Approval ID: 2030668 |                       |                       |                   |                             |
|-----------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                           | 600 V                 | 40 A                  | 20 - 8            | -                           |
| C                           | 600 V                 | 40 A                  | 20 - 8            | -                           |
| D                           | 600 V                 | 5 A                   | 20 - 8            | -                           |

| CB<br>IECEE CB Scheme<br>Approval ID: DE1-64372_B1_B2 |                       |                       |                   |                             |
|-------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                 | 1000 V                | -                     | -                 | -                           |

| cULus<br>cULus Recognized<br>Approval ID: E60425 |                       |                       |                   |                             |
|--------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                | 600 V                 | 40 A                  | 20 - 8            | -                           |
| C                                                | 600 V                 | 40 A                  | 20 - 8            | -                           |
| F                                                | 1000 V                | 40 A                  | 20 - 8            | -                           |

| VDE<br>VDE Zeichengenehmigung<br>Approval ID: 40043445 |                       |                       |                   |                             |
|--------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                  | 1000 V                | -                     | -                 | 0.5 - 6                     |

| EAC<br>EAC<br>Approval ID: KZ7500651131219505 |  |  |  |  |
|-----------------------------------------------|--|--|--|--|
|-----------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250306 |
| ECLASS-15.0 | 27250306 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002021 |
|----------|----------|

### 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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