

PTTB 4 WH - Double-level terminal block



3211794

<https://www.phoenixcontact.com/us/products/3211794>

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Double-level terminal block, nom. voltage: 500 V, nominal current: 28 A, connection method: Push-in connection, 1st and 2nd level, Rated cross section: 4 mm², cross section: 0.2 mm² - 6 mm², mounting type: NS 35/7,5, NS 35/15, color: white



The figure shows the product in gray

Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Convenient plugging with lower insertion force
- High conductor pull-out forces due to the spring design
- Vibration-resistant and maintenance-free conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- High space savings thanks to the compact integration of two separate circuits in a single terminal block
- Optimized for manual and automated wiring

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3211794 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2214 |
| GTIN | 4055626462103 |
| Weight per piece (including packing) | 16.45 g |
| Weight per piece (excluding packing) | 16.45 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|-----------------------|----------------------------|
| Product type | Multi-level terminal block |
| Product family | PT |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| | Process industry |
| Number of connections | 4 |
| Number of rows | 2 |
| Potentials | 2 |

Insulation characteristics

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

Electrical properties

| | |
|-------------------------------------------------|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 W |

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm ² |

1st and 2nd level

| | |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.2 mm ² ... 6 mm ² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm ² ... 6 mm ² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm ² ... 4 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1 mm ² |
| Nominal cross section | 4 mm ² |
| Nominal current | 28 A (with 4 mm ² conductor cross-section) |
| Maximum load current | 32 A (with 6 mm ² conductor cross-section, rigid) |
| Nominal voltage | 500 V |

1st and 2nd level Connection cross sections directly pluggable

| | |
|-------------------------------|-------------------------------------------|
| Conductor cross-section rigid | 0.5 mm ² ... 6 mm ² |
|-------------------------------|-------------------------------------------|

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| | |
|-------------------------------------------------------------------|-------------------------------------------|
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm ² ... 4 mm ² |

Ex data

Rated data (ATEX/IECEX)

| | |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identification | ⊕ II 2 G Ex eb IIC Gb |
| Operating temperature range (1) | -60 °C ... 85 °C |
| Operating temperature range (2) | -40 °C ... 110 °C |
| Ex-certified accessories | 3030462 D-STTB 4 3030747 ATP-STTB 4 1204517 SZF 1-0,6X3,5 3022276 CLIPFIX 35-5 3022218 CLIPFIX 35 |
| List of bridges | Plug-in bridge / FBS 2-6 / 3030336 Plug-in bridge / FBS 3-6 / 3030242 Plug-in bridge / FBS 4-6 / 3030255 Plug-in bridge / FBS 5-6 / 3030349 Plug-in bridge / FBS 10-6 / 3030271 Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data | 23 A / 4 mm ² |
| Ex temperature increase | 40 K (23 A / 4 mm ²) |
| for bridging with bridge | 440 V |
| - At bridging between non-adjacent terminal blocks | 352 V |
| - At bridging between non-adjacent terminal blocks via PE terminal block | 352 V |
| - At cut-to-length bridging | 220 V |
| - At cut-to-length bridging with cover | 352 V |
| - At cut-to-length bridging with partition plate | 440 V |
| Rated insulation voltage | 400 V |
| output | (Permanent) |

Ex level General

| | |
|----------------------|---------------------------|
| Rated voltage | 440 V |
| Rated current | 23 A (4 mm ²) |
| Maximum load current | 27 A (6 mm ²) |

Ex connection data General

| | |
|------------------------------|-------------------------------------------|
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.2 mm ² ... 6 mm ² |
| Connection capacity AWG | 24 ... 10 |
| Connection capacity flexible | 0.2 mm ² ... 4 mm ² |
| Connection capacity AWG | 24 ... 12 |
| output | (Permanent) |

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Ex level Level 1

| | |
|--------------------|-------------|
| Contact resistance | 0.67 mΩ |
| output | (Permanent) |

Ex level Level 2

| | |
|--------------------|---------|
| Contact resistance | 0.49 mΩ |
|--------------------|---------|

Dimensions

| | |
|--------------------|---------|
| Width | 6.2 mm |
| End cover width | 2.2 mm |
| Height | 83.5 mm |
| Depth on NS 35/7,5 | 47.5 mm |
| Depth on NS 35/15 | 55 mm |

Material specifications

| | |
|------------------------------------------------------------------|------------------|
| Color | white (RAL 9010) |
| 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 |
| 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 | Yes |
|-----------------|-----|

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 % |

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Standards and regulations

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

Mounting

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

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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3211794>

|  CSA Approval ID: 158887 | | | | |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 300 V | 30 A | 24 - 10 | - |
| C | 300 V | 30 A | 24 - 10 | - |
| D | 600 V | 5 A | 24 - 10 | - |

|  cULus Recognized Approval ID: E60425 | | | | |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 300 V | 28 A | 24 - 10 | - |
| C | 300 V | 28 A | 24 - 10 | - |
| D | 600 V | 5 A | 24 - 10 | - |

|  LR Approval ID: LR2371832TA | | | | |
|---------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  NK Approval ID: 22ME0007 | | | | |
|------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  PRS Approval ID: TE/2107/880590/21 | | | | |
|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

| ABS Approval ID: 21-2192245-PDA | | | | |
|-------------------------------------------|--|--|--|--|
|-------------------------------------------|--|--|--|--|


| DNV Approval ID: TAE000010T | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|


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|  IECEx Approval ID: IECExPTB10.0046U | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| Only flexible conductors | 440 V | 23 A | - | 0.2 - 4 |
| Only rigid conductors | 440 V | 27 A | - | 0.2 - 6 |

|  ATEX Approval ID: PTB09ATEX1112U | | | | |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| Only flexible conductors | 440 V | 23 A | - | 0.2 - 4 |
| Only rigid conductors | 440 V | 27 A | - | 0.2 - 6 |

|  CCC Approval ID: 2020322313000631 | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  UKCA-EX Approval ID: CSAE 22UKEX1100U | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  EAC Ex Approval ID: KZ 7500525010101950 | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250102 |
| ECLASS-15.0 | 27250102 |

ETIM

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|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

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

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.223 kg CO2e |
|---------|---------------|

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