

PT 6-FSI/C - Fuse modular terminal block



3212166

<https://www.phoenixcontact.com/gb/products/3212166>

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Fuse modular terminal block, fuse type: Blade, fuse type: Type C / max. 2.2 W, nom. voltage: 400 V, nominal current: 25 A, connection method: Push-in connection, Rated cross section: 6 mm², cross section: 0.5 mm²- 10 mm², mounting type: NS 35/7,5, NS 35/15, color: black

Your advantages

- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The compact design and front connection enable wiring in a confined space
- 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
- Suitable for all flat-type fuse-links designed according ISO 8820-3 (DIN 72581-3)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3212166 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE2236 |
| Product key | BE2236 |
| GTIN | 4055626394312 |
| Weight per piece (including packing) | 18.918 g |
| Weight per piece (excluding packing) | 17.292 g |
| Customs tariff number | 85369095 |
| Country of origin | CN |

Technical data

Notes

| | |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order information: | Fuse-link not supplied as standard |
| General | The current is determined by the fuse used, the voltage by the selected LED display. Permissible continuous load in accordance with ISO 8820-2:2015 (E) is max. 70% of the nominal current of the fuse. For short-circuit protection use only. |

Product properties

| | |
|-----------------------|---|
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

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

Electrical properties

| | |
|-------------------------------------------------|---------------------|
| Fuse type | Blade |
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.31 W |
| Fuse | Type C / max. 2.2 W |

Connection data

| | |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Number of connections per level | 2 |
| Nominal cross section | 6 mm ² |
| Rated cross section AWG | 10 |
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A5 |
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross-section rigid | 0.5 mm ² ... 10 mm ² |
| Cross section AWG | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm ² ... 10 mm ² |
| Conductor cross-section, flexible [AWG] | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm ² ... 10 mm ² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm ² ... 6 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm ² ... 6 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 2.5 mm ² When using TWIN ferrules, we recommend a minimum ferrule length of 13 mm. |
| Nominal cross section | 6 mm ² |
| Nominal current | 25 A (with 4 mm ² conductor cross-section) |

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| | |
|----------------------|-------------------------------------------------------------------------------|
| Maximum load current | 30 A (In separate arrangement with 4 mm ² conductor cross-section) |
| Nominal voltage | 400 V |

Connection cross sections directly pluggable

| | |
|-------------------------------------------------------------------|------------------------------------------|
| Conductor cross-section rigid | 1 mm ² ... 10 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm ² ... 6 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1 mm ² ... 6 mm ² |

Dimensions

| | |
|--------------------|---------|
| Width | 8.2 mm |
| Height | 74.1 mm |
| Depth | 44 mm |
| Depth on NS 35/7,5 | 45.5 mm |
| Depth on NS 35/15 | 53 mm |

Material specifications

| | |
|------------------------------------------------------------------|------------------|
| Color | black (RAL 9005) |
| 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 | No |
|-----------------|----|

Environmental and real-life conditions

Oscillation/broadband noise

| | |
|------------------------|--------------------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ |
| ASD level | 0.964 (m/s ²)/Hz |
| Acceleration | 0.58g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |

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3212166

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

Shocks

| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 ms |
| 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 60947-7-3 |
|----------------------------------|---------------|

Mounting

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

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Drawings

Application drawing



Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

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3212166

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Application drawing



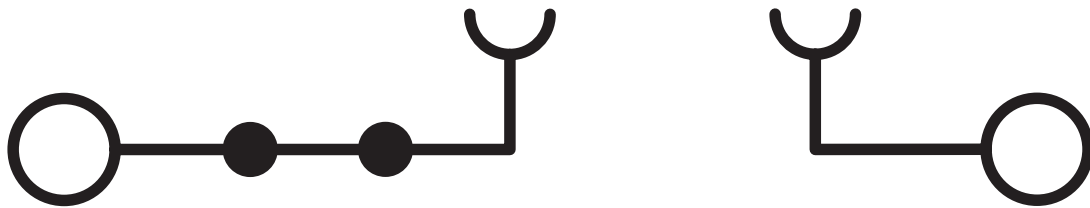
Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

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Circuit diagram



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Approvals

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|  CSA Approval ID: 13631 | | | | |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 300 V | 25 A | 20 - 8 | - |
| C | 300 V | 25 A | 20 - 8 | - |
| D | 600 V | 5 A | 20 - 8 | - |

|  EAC Approval ID: RU C-DE.BL08.B.00644 | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  cULus Recognized Approval ID: E60425 | | | | |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 300 V | 25 A | 20 - 8 | - |
| C | 300 V | 25 A | 20 - 8 | - |
| D | 600 V | 5 A | 20 - 8 | - |

|  EAC Approval ID: KZ7500651131219505 | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000899 |
|-----------|----------|

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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