

ST 1,5-TWIN GN - Feed-through terminal block



3037287

<https://www.phoenixcontact.com/us/products/3037287>

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 3, connection method: Spring-cage connection, Rated cross section: 1.5 mm², cross section: 0.08 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: green

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3037287 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE02 |
| Product key | BE2112 |
| GTIN | 4017918599683 |
| Weight per piece (including packing) | 6.337 g |
| Weight per piece (excluding packing) | 5.858 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

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Technical data

Notes

General

| | |
|------|---|
| Note | When establishing a connection on the open housing side of a feed-through modular terminal block of the same series and size, the block must be provided with a cover if the expected insulation voltage is >320 V. |
| | The max. load current must not be exceeded by the total current of all connected conductors. |

Product properties

| | |
|-----------------------|--------------------------------|
| Product type | Multi-conductor terminal block |
| Number of connections | 3 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
|----------------------|-----|

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 0.56 W |

Connection data

| | |
|---|---|
| Number of connections per level | 3 |
| Nominal cross section | 1.5 mm ² |
| Connection method | Spring-cage connection |
| Stripping length | 8 mm ... 10 mm |
| Internal cylindrical gage | A1 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.08 mm ² ... 1.5 mm ² |
| Cross section AWG | 28 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible [AWG] | 28 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 1.5 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² |
| Nominal cross section | 1.5 mm ² |
| Nominal current | 17.5 A (with 1.5 mm ² conductor cross-section) |
| Maximum load current | 17.5 A (in case of a 1.5 mm ² conductor cross-section, the maximum load current must not be exceeded by the total current) |

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| | |
|-----------------|-------------------------------|
| | of all connected conductors.) |
| Nominal voltage | 500 V |

Ex data

Rated data (ATEX/IECEX)

| | |
|--|--|
| Identification | ⊕ II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 85 °C |
| Ex-certified accessories | 3030488 D-ST 2,5-TWIN 3030789 ATP-ST-TWIN 3036602 DS-ST 2,5 1204504 SZF 0-0,4X2,5 3022276 CLIPFIX 35-5 3022218 CLIPFIX 35 |
| List of bridges | Plug-in bridge / FBS 2-4 / 3030116 Plug-in bridge / FBS 3-4 / 3030129 Plug-in bridge / FBS 4-4 / 3030132 Plug-in bridge / FBS 5-4 / 3030145 Plug-in bridge / FBS 10-4 / 3030158 Plug-in bridge / FBS 20-4 / 3030352 |
| Bridge data | 16.5 A (1.5 mm ²) |
| Ex temperature increase | 40 K (19.4 A / 1.5 mm ²) |
| for bridging with bridge | 440 V |
| - At bridging between non-adjacent terminal blocks | 352 V |
| - At cut-to-length bridging with cover | 220 V |
| - At cut-to-length bridging with partition plate | 275 V |
| Rated insulation voltage | 400 V |
| output | (Permanent) |

Ex level General

| | |
|----------------------|---------|
| Rated voltage | 440 V |
| Rated current | 17.5 A |
| Maximum load current | 17.5 A |
| Contact resistance | 1.43 mΩ |

Ex connection data General

| | |
|------------------------------|--|
| Nominal cross section | 1.5 mm ² |
| Rated cross section AWG | 16 |
| Connection capacity rigid | 0.08 mm ² ... 1.5 mm ² |
| Connection capacity AWG | 28 ... 16 |
| Connection capacity flexible | 0.08 mm ² ... 1.5 mm ² |
| Connection capacity AWG | 28 ... 16 |

Dimensions

| | |
|--------|---------|
| Width | 4.2 mm |
| Height | 60.5 mm |

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| | |
|--------------------|---------|
| Depth on NS 35/7,5 | 36.5 mm |
| Depth on NS 35/15 | 44 mm |

Material specifications

| | |
|--|------------------|
| Color | green (RAL 6021) |
| 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 |

Electrical tests

Surge voltage test

| | |
|-----------------------|-------------|
| Test voltage setpoint | 7.3 kV |
| Result | Test passed |

Temperature-rise test

| | |
|--|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 1.5 mm ² | 0.18 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV |
| Result | Test passed |

Mechanical properties

Mechanical data

| | |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

Mechanical tests

Mechanical strength

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

Attachment on the carrier

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Result | Test passed |

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Test for conductor damage and slackening

| | |
|--------------------------------|-------------------------------|
| Rotation speed | 10 (+/- 2) rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.14 mm ² / 0.2 kg |
| | 0.2 mm ² / 0.2 kg |
| | 1.5 mm ² / 0.4 kg |
| Result | Test passed |

Environmental and real-life conditions

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 ²) ² /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):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 |
| 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 % |

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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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Classifications

ECLASS

ECLASS-13.0

27250101

ETIM

ETIM 9.0

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 | 0.043 kg CO2e |
|---------|---------------|

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