

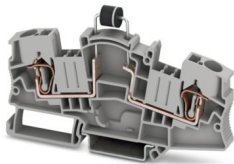
STME 6-DIO/L-R HV - Component terminal block



3035691

<https://www.phoenixcontact.com/us/products/3035691>

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Component terminal block, If several diode terminal blocks need adding to the DIN rail, a spacer plate must be placed between them., with integrated P1000M diode, nom. voltage: 1000 V, nominal current: 5 A, connection method: Spring-cage connection, Rated cross section: 6 mm², cross section: 0.2 mm² - 10 mm², color: gray

Your advantages

- Connection of standard solar cables up to 10 mm² and with 7.5 mm outside diameter
- The DP-STMED 6 spacer plate ensures sufficient spacing between two adjacent diode terminal blocks
- A space-saving design of the same shape for compact generator connection boxes
- Consistent function shafts enable the simple grouping of individual PV lines using plug-in bridges

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 3035691 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE02 |
| Product key | BE2172 |
| Catalog page | Page 239 (C-1-2019) |
| GTIN | 4046356609791 |
| Weight per piece (including packing) | 26.26 g |
| Weight per piece (excluding packing) | 25.3 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Notes

| | |
|---------|---|
| General | If several diode terminal blocks need adding to the DIN rail, a spacer plate must be placed between them. |
|---------|---|

Product properties

| | |
|-----------------------|--------------------------|
| Product type | Component 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 ² |
| Stripping length | 12 mm |
| Internal cylindrical gage | A4 |
| Conductor cross section rigid | 0.2 mm ² ... 10 mm ² |
| Cross section AWG | 24 ... 8 (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 ... 6 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.25 mm ² ... 6 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1.5 mm ² |
| Nominal current | 5 A |
| Maximum load current | 5 A (with 10 mm ² conductor cross section) |
| Nominal voltage | 1000 V |
| Nominal cross section | 6 mm ² |

Dimensions

| | |
|--------------------|----------|
| Width | 8.2 mm |
| Height | 100.8 mm |
| Depth on NS 35/7,5 | 60 mm |
| Depth on NS 35/15 | 67.5 mm |

Material specifications

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| | |
|---|-------------|
| Color | gray |
| 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 |

Electrical tests

Surge voltage test

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

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 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 35 |
| Test force setpoint | 5 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|------------------------------|
| Conductor cross section/weight | 0.2 mm ² / 0.2 kg |
| | 6 mm ² / 1.4 kg |
| | 10 mm ² / 2 kg |
| Result | Test passed |

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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):2008-03 |
| Spectrum | Service life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | $11.83 \text{ (m/s}^2\text{)}^2\text{/Hz}$ |
| Acceleration | 4.25g |
| 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 | 30g |
| Shock duration | 18 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 % |

Mounting

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

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141127 |
| ECLASS-12.0 | 27141127 |
| ECLASS-13.0 | 27250114 |

ETIM

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|----------|----------|
| ETIM 9.0 | EC000903 |
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UNSPSC

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

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Environmental product compliance

REACH SVHC

Lead 7439-92-1

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