

Potential collective terminal - STU 10/ 4X2,5 BU - 3033142

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Potential collective terminal, nom. voltage: 800 V, nominal current: 55 A, connection method: Screw connection, Spring-cage connection, number of connections: 5, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 10.3 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Why buy this product

- ✓ The STU 10/4x2,5 spring-cage hybrid terminal block is a space-saving potential distributor that distributes a 10 mm² supply line to four 2.5 mm² connections
- ✓ Supplied using a 10 mm² screw connection
- ✓ The double bridge shaft supports further potential distributions
- ✓ Can be consistently bridged to standard terminal blocks in the ST spring-cage terminal block series
- ✓ The system-internal distribution is via four spring-cage connections with a nominal cross section of 2.5 mm²

Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 50 STK |
| GTIN | |
| GTIN | 4046356148023 |

Technical data

General

| | |
|---|--------------------|
| Number of levels | 1 |
| Number of connections | 5 |
| Nominal cross section | 10 mm ² |
| Color | blue |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Rated surge voltage | 8 kV |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum power dissipation for nominal condition | 1.82 W |

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Technical data

General

| | |
|---|------------------------|
| Connection method | Screw connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Maximum load current | 57 A |
| Nominal current I_N | 55 A |
| Nominal voltage U_N | 800 V |
| Connection method | Spring-cage connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Maximum load current | 24 A |
| Nominal current I_N | 24 A |
| Nominal voltage U_N | 800 V |
| Open side panel | Yes |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Static insulating material application in cold | -60 °C |
| Behavior in fire for rail vehicles (DIN 5510-2) | Test passed |
| Flame test method (DIN EN 60695-11-10) | V0 |
| Oxygen index (DIN EN ISO 4589-2) | >32 % |
| NF F16-101, NF F10-102 Class I | 2 |
| NF F16-101, NF F10-102 Class F | 2 |
| 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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 27,5 MJ/kg |
| 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 |

Dimensions

| | |
|------------------|---------|
| Width | 10.3 mm |
| Length | 68 mm |
| Height NS 35/7,5 | 48.3 mm |
| Height NS 35/15 | 55.8 mm |
| End cover width | 2.2 mm |

Connection data

| | |
|----------------------------------|------------------|
| Connection method | Screw connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Screw thread | M4 |
| Tightening torque, min | 1.5 Nm |
| Tightening torque max | 1.8 Nm |

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Technical data

Connection data

| | |
|---|------------------------|
| Stripping length | 8 mm ... 10 mm |
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 16 mm ² |
| Conductor cross section AWG min. | 20 |
| Conductor cross section AWG max. | 6 |
| Conductor cross section flexible min. | 0.5 mm ² |
| Conductor cross section flexible max. | 16 mm ² |
| Min. AWG conductor cross section, flexible | 20 |
| Max. AWG conductor cross section, flexible | 6 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 10 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 10 mm ² |
| 2 conductors with same cross section, solid min. | 0.5 mm ² |
| 2 conductors with same cross section, solid max. | 4 mm ² |
| 2 conductors with same cross section, stranded min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded max. | 4 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 2.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 6 mm ² |
| Internal cylindrical gage | A6 |
| Connection method | Spring-cage connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Stripping length | 8 mm ... 10 mm |
| Conductor cross section solid min. | 0.08 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 10 |
| Conductor cross section flexible min. | 0.08 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Min. AWG conductor cross section, flexible | 24 |
| Max. AWG conductor cross section, flexible | 12 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 2.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 2.5 mm ² |

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Technical data

Connection data

| | |
|---|----------------------|
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.14 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm ² |

Standards and Regulations

| | |
|--|---|
| Connection in acc. with standard | CUL |
| | IEC 60947-7-1 |
| | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0 |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
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Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / BV / cULus Recognized

Ex Approvals

Approval details

| | | | |
|--------------------|-------|---|--------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| Nominal voltage UN | 600 V | B 600 V | C |

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Approvals

| | | B | C |
|----------------------------|------|------|---|
| Nominal current IN | 50 A | 50 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |

| | | | |
|----------------|--|---|--------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
|----------------|--|---|--------------|

| | | B | C |
|----------------------------|-------|-------|---|
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 50 A | 50 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |

| | | |
|-----|--|---------------|
| EAC | | EAC-Zulassung |
|-----|--|---------------|

| | | | |
|----|--|---|-------------|
| BV | | http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials | 40934/A0 BV |
|----|--|---|-------------|

| | | |
|------------------|--|---|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm |
|------------------|--|---|

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