

## Feed-through terminal block - ST 10-TWIN BU - 3035292

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, connection method: Spring-cage connection, number of connections: 3, cross section: 0.2 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 24 - 6, width: 10.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

### Your advantages

- ✓ The ST ...-TWIN three-conductor spring cage terminal blocks are a space-saving alternative to standard feed-through terminal blocks where potential distribution with conductor cross sections of 10 and 16 mm<sup>2</sup> is required
- ✓ The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- ✓ Tested for railway applications
- ✓ Ideal as potential distributors in ring feeder systems
- ✓ Terminal blocks with a nominal cross section of 2.5 or 4 mm<sup>2</sup> can be combined without additional wiring effort using the RB ST...(2,5/4) reducing bridge



### Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 25 pc         |
| Minimum order quantity               | 25 pc         |
| GTIN                                 |               |
| GTIN                                 | 4046356100878 |
| Weight per Piece (excluding packing) | 35.980 g      |
| Custom tariff number                 | 85369010      |
| Country of origin                    | Poland        |

### Technical data

#### General

|                       |                    |
|-----------------------|--------------------|
| Number of levels      | 1                  |
| Number of connections | 3                  |
| Potentials            | 1                  |
| Nominal cross section | 10 mm <sup>2</sup> |
| Color                 | blue               |

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## Technical data

### General

|   |  |
|---|--|
| Insulating material   | PA   |
| Flammability rating according to UL 94                                  | V0   |
| Area of application   | Railway industry   |
|   | Machine building   |
|   | Plant engineering  |
| 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   |
| Maximum load current  | 57 A   |
| Nominal current $I_N$   | 57 A (with 16 mm <sup>2</sup> conductor cross section)                 |
| Nominal voltage $U_N$   | 1000 V   |
| Open side panel   | Yes  |
| Ambient temperature (operation)   | -60 °C ... 85 °C   |
| Ambient temperature (storage/transport)                                 | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Moisture, minimum (storage/transport)                                   | 30 %   |
| Moisture, maximum (storage/transport)                                   | 70 %   |
| Ambient temperature (assembly)  | -5 °C ... 70 °C  |
| Ambient temperature (actuation)   | -5 °C ... 70 °C  |
| 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   |
| 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            | 10.2 mm |
| End cover width  | 2.2 mm  |
| Length           | 95.4 mm |
| Height NS 35/7,5 | 50.3 mm |
| Height NS 35/15  | 57.8 mm |

### Connection data

|            |         |
|------------|---------|
| Connection | 1 level |
|------------|---------|

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## Technical data

### Connection data

|  |                        |
|--|------------------------|
| Connection method  | Spring-cage connection |
| Stripping length   | 18 mm                  |
| Connection in acc. with standard   | IEC 60947-7-1          |
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>    |
| Conductor cross section solid max.   | 16 mm <sup>2</sup>     |
| Conductor cross section AWG min.   | 24                     |
| Conductor cross section AWG max.   | 6                      |
| Conductor cross section flexible min.  | 0.2 mm <sup>2</sup>    |
| Conductor cross section flexible max.  | 10 mm <sup>2</sup>     |
| Min. AWG conductor cross section, flexible   | 24                     |
| Max. AWG conductor cross section, flexible   | 8                      |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.25 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 10 mm <sup>2</sup>     |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.25 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 10 mm <sup>2</sup>     |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 1.5 mm <sup>2</sup>    |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 2.5 mm <sup>2</sup>    |
| Internal cylindrical gage  | A6                     |

### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | UL            |
|  | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0            |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Circuit diagram



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 4.0    | 27141100 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27141100 |
| eCl@ss 5.0 | 27141100 |
| eCl@ss 5.1 | 27141100 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

## Approvals

### Approvals

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#### Approvals

CSA / CSA / BV / UL Recognized / IECCEB Scheme / VDE Zeichengenehmigung / EAC / cUL Recognized / cULus Recognized

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#### Ex Approvals

EAC Ex

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### Approval details

# Feed-through terminal block - ST 10-TWIN BU - 3035292

## Approvals

|     |  |   |       |
|-----|--|---|-------|
| CSA |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|-----|--|---|-------|

|                            |       |   |       |
|----------------------------|-------|---|-------|
| CSA                        |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B     | C   |       |
| Nominal voltage UN         | 600 V | 600 V   |       |
| Nominal current IN         | 55 A  | 55 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 16-6  | 16-6  |       |

|    |  |   |             |
|----|--|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 13403/D0 BV |
|----|--|---|-------------|

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| UL Recognized              |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B     | C   |              |
| Nominal voltage UN         | 600 V | 600 V   |              |
| Nominal current IN         | 60 A  | 60 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 16-6  | 16-6  |              |


|                 |  |   |           |
|-----------------|--|---|-----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-62884 |
|-----------------|--|---|-----------|

|                            |        |   |          |
|----------------------------|--------|---|----------|
| VDE Zeichengenehmigung     |        | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40019419 |
| Nominal voltage UN         | 800 V  |   |          |
| Nominal current IN         | 57 A   |   |          |
| mm <sup>2</sup> /AWG/kcmil | 1.5-10 |   |          |

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--------------------------|

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### Approvals

|                            |   |   |              |
|----------------------------|---|---|--------------|
| cUL Recognized             |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B   | C   |              |
| Nominal voltage UN         | 600 V   | 600 V   |              |
| Nominal current IN         | 60 A  | 60 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 16-6  | 16-6  |              |

|                  |   |
|------------------|---|
| cULus Recognized |  |
|------------------|---|