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## Feed-through terminal block - ST 4-TWIN BK - 3037407

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Spring-cage connection, number of connections: 3, cross section: 0.08 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 28 - 10, width: 6.2 mm, color: black, mounting type: NS 35/7,5, NS 35/15

### Why buy this product

- The consistent double function shaft offers every opportunity for time-saving potential distribution and accommodating test accessories
- User-friendly implementation of all potential branching tasks
- Space-saving and practical multi-conductor connection without additional bridges



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 STK        |
| GTIN         |               |
| GTIN         | 4017918599775 |

### Technical data

#### General

|   |                   |
|---|-------------------|
| Number of levels                                | 1                 |
| Number of connections                           | 3                 |
| Potentials                                      | 1                 |
| Nominal cross section                           | 4 mm <sup>2</sup> |
| Color   | black             |
| 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 | 1.02 W            |

# Feed-through terminal block - ST 4-TWIN BK - 3037407

## Technical data

### General

|   |   |
|---|---|
| Maximum load current  | 40 A (In the case of a 6 mm <sup>2</sup> conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors) |
| Nominal current I <sub>N</sub>  | 32 A (with 6 mm <sup>2</sup> conductor cross section)   |
| Nominal voltage U <sub>N</sub>  | 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)) | 130 °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)                        | 28 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            | 6.2 mm  |
| End cover width  | 2.2 mm  |
| Length           | 71.5 mm |
| Height NS 35/7,5 | 36.5 mm |
| Height NS 35/15  | 44 mm   |

### Connection data

|  |                        |
|--|------------------------|
| Connection method  | Spring-cage connection |
| Connection in acc. with standard   | IEC 60947-7-1          |
| Conductor cross section solid min.   | 0.08 mm <sup>2</sup>   |
| Conductor cross section solid max.   | 6 mm <sup>2</sup>      |
| Conductor cross section AWG min.   | 28                     |
| Conductor cross section AWG max.   | 10                     |
| Conductor cross section flexible min.                                      | 0.08 mm <sup>2</sup>   |
| Conductor cross section flexible max.                                      | 4 mm <sup>2</sup>      |
| Min. AWG conductor cross section, flexible                                 | 28                     |
| Max. AWG conductor cross section, flexible                                 | 12                     |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup>   |



# Feed-through terminal block - ST 4-TWIN BK - 3037407

## Technical data

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 4 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 4 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1 mm <sup>2</sup>    |
| Connection in acc. with standard  | IEC/EN 60079-7       |
| Conductor cross section solid min.  | 0.08 mm <sup>2</sup> |
| Conductor cross section solid max.  | 6 mm <sup>2</sup>    |
| Conductor cross section AWG min.  | 28                   |
| Conductor cross section AWG max.  | 10                   |
| Conductor cross section flexible min.   | 0.08 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 4 mm <sup>2</sup>    |
| Stripping length  | 8 mm ... 10 mm       |
| Internal cylindrical gage   | A4                   |

### Standards and Regulations

|  |   |
|--|---|
| Connection in acc. with standard                       | CSA   |
|  | 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 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | 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) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

### Environmental Product Compliance

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

## Drawings

Circuit diagram



## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / BV / KR / NK / IEC/IEC CB Scheme / EAC / DNV GL / EAC / cULus Recognized


# Feed-through terminal block - ST 4-TWIN BK - 3037407


## Approvals


Ex Approvals


IECEX / ATEX / EAC Ex


### Approval details

|                            |   |   |       |
|----------------------------|---|---|-------|
| 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         | 30 A  | 30 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 28-10   | 28-10   |       |

|                            |  |   |              |
|----------------------------|--|---|--------------|
| 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         | 30 A   | 30 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 28-10  | 28-10   |              |

|   |   |   |          |
|---|---|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <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> | 40009034 |
|   |   |   |          |
| Nominal voltage UN                      | 800 V   |   |          |
| Nominal current IN                      | 32 A  |   |          |
| mm <sup>2</sup> /AWG/kcmil              | 0.2-4.0   |   |          |

|                            |   |   |              |
|----------------------------|---|---|--------------|
| 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         | 30 A  | 30 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 28-10   | 28-10   |              |

|    |   |   |          |
|----|---|---|----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 04/20034 |
|----|---|---|----------|

# Feed-through terminal block - ST 4-TWIN BK - 3037407

## Approvals

|    |  |   |             |
|----|--|---|-------------|
| 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/B0 BV |
|----|--|---|-------------|

|    |  |   |                |
|----|--|---|----------------|
| KR |  | <a href="http://www.krs.co.kr/eng/main/main.aspx">http://www.krs.co.kr/eng/main/main.aspx</a> | HMB17372-EL002 |
|----|--|---|----------------|

|    |  |   |           |
|----|--|---|-----------|
| NK |  | <a href="http://www.classnk.or.jp/hp/en/">http://www.classnk.or.jp/hp/en/</a> | 09 ME 140 |
|----|--|---|-----------|

|                            |       |   |           |
|----------------------------|-------|---|-----------|
| IECEE CB Scheme            |       | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-51420 |
| Nominal voltage UN         | 800 V |   |           |
| mm <sup>2</sup> /AWG/kcmil | 4     |   |           |

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

|        |   |            |
|--------|---|------------|
| DNV GL | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE00001CS |
|--------|---|------------|

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

|                  |  |   |
|------------------|--|---|
| cULus 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> |
|------------------|--|---|

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