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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Feed-through terminal block - UT 16 BK - 3044197

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, connection method: Screw connection, number of connections: 2, cross section: 1.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 16 - 4, width: 12.2 mm, height: 54.4 mm, color: black, mounting type: NS 35/7,5, NS 35/15

### Why buy this product

- The reducing bridges can be used to connect terminal blocks with different connection technologies, e.g., UT 35 screw terminal block with Push-in technology 2,5 Push-in terminal blocks, to form power blocks
- Easy and time-saving potential supply and distribution of large currents and cross sections up to 35 mm<sup>2</sup> with reducing bridges
- 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



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 STK  |
| GTIN         | <br>4 055626 055275 |
| GTIN         | 4055626055275   |

### Technical data

#### General

|  |                    |
|--|--------------------|
| Number of levels                       | 1                  |
| Number of connections                  | 2                  |
| Potentials                             | 1                  |
| Nominal cross section                  | 16 mm <sup>2</sup> |
| Color                                  | black              |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |
| Area of application                    | Railway industry   |
|  | Machine building   |
|  | Plant engineering  |

# Feed-through terminal block - UT 16 BK - 3044197

## Technical data

### General

|   |   |
|---|---|
|   | Process industry  |
| Rated surge voltage   | 8 kV  |
| Degree of pollution   | 3   |
| Overvoltage category  | III   |
| Insulating material group   | I   |
| Maximum power dissipation for nominal condition                         | 2.43 W  |
| Maximum load current  | 101 A (with 25 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 76 A  |
| Nominal voltage U <sub>N</sub>  | 1000 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            | 12.2 mm |
| End cover width  | 2.2 mm  |
| Length           | 55.5 mm |
| Height           | 54.4 mm |
| Height NS 35/7,5 | 55 mm   |
| Height NS 35/15  | 62.5 mm |

### Connection data

|                                    |  |
|------------------------------------|--|
| Connection method                  | Screw connection   |
| Connection in acc. with standard   | IEC 60947-7-1  |
| Note                               | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |
| Conductor cross section solid min. | 1.5 mm <sup>2</sup>  |

# Feed-through terminal block - UT 16 BK - 3044197

## Technical data

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid max.  | 25 mm <sup>2</sup>   |
| Conductor cross section AWG min.  | 16                   |
| Conductor cross section AWG max.  | 4                    |
| Conductor cross section flexible min.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 25 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible  | 16                   |
| Max. AWG conductor cross section, flexible  | 4                    |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 1 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 16 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 1 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 16 mm <sup>2</sup>   |
| 2 conductors with same cross section, solid min.  | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, solid max.  | 6 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded min.                                     | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded max.                                     | 6 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 10 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 6 mm <sup>2</sup>    |
| Connection in acc. with standard  | IEC/EN 60079-7       |
| Conductor cross section solid min.  | 1.5 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 25 mm <sup>2</sup>   |
| Conductor cross section AWG min.  | 16                   |
| Conductor cross section AWG max.  | 4                    |
| Conductor cross section flexible min.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 16 mm <sup>2</sup>   |
| Stripping length  | 14 mm                |
| Internal cylindrical gage   | A7                   |
| Screw thread  | M5                   |
| Tightening torque, min  | 2.5 Nm               |
| Tightening torque max   | 3 Nm                 |

### Standards and Regulations

|  |   |
|--|---|
| Connection in acc. with standard                       | 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 |

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## Technical data

### Standards and Regulations

|  |   |
|--|---|
| 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

VDE approval of drawings / UL Recognized / cUL Recognized / CSA / DNV GL / PRS / EAC / cULus Recognized

#### Ex Approvals

IECEX / ATEX / EAC Ex


### Approval details


|                            |        |   |          |
|----------------------------|--------|---|----------|
| VDE approval of drawings   |        | <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> | 40020166 |
| Nominal voltage UN         | 1000 V |   |          |
| Nominal current IN         | 76 A   |   |          |
| mm <sup>2</sup> /AWG/kcmil | 1.5-16 |   |          |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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         | 85 A  | 85 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 16-4  | 16-4  |              |


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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         | 85 A  | 85 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 16-4  | 16-4  |              |

|                            |   |   |       |
|----------------------------|---|---|-------|
| 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         | 85 A  | 85 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 16-4  | 16-4  |       |

|        |   |            |
|--------|---|------------|
| DNV GL | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE00001S9 |
|--------|---|------------|

|     |   |   |                   |
|-----|---|---|-------------------|
| PRS |  | <a href="http://www.prs.pl/">http://www.prs.pl/</a> | TE/2156/880590/17 |
|-----|---|---|-------------------|

|     |   |                          |
|-----|---|--------------------------|
| 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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