

## Feed-through terminal block - UK 10 N RD - 3022315

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 57 A, connection method: Screw connection, number of connections: 2, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 20 - 6, width: 10.2 mm, color: red, mounting type: NS 35/7,5, NS 35/15

RoHS



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4017918433390 |

### Technical data

#### General

|   |  |
|---|--|
| Number of positions                             | 1  |
| Number of levels                                | 1  |
| Number of connections                           | 2  |
| Nominal cross section                           | 10 mm <sup>2</sup>                                     |
| Color   | red  |
| 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   |
| Designation                                     | Level 1 above 1 below 1                                |
| Maximum load current                            | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                  | 57 A   |
| Nominal voltage U <sub>N</sub>                  | 800 V  |
| Open side panel                                 | Yes  |

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## Technical data

### General

|   |                              |
|---|------------------------------|
| Shock protection test specification   | IEC 60529:2001-02            |
| Back of the hand protection   | guaranteed                   |
| Finger protection   | guaranteed                   |
| Result of surge voltage test  | Test passed                  |
| Surge voltage test setpoint   | 9.8 kV                       |
| Result of power-frequency withstand voltage test  | Test passed                  |
| Power frequency withstand voltage setpoint  | 2 kV                         |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed                  |
| Result of bending test  | Test passed                  |
| Bending test rotation speed   | 10 rpm                       |
| Bending test turns  | 135                          |
| Bending test conductor cross section/weight   | 0.5 mm <sup>2</sup> / 0.3 kg |
|   | 10 mm <sup>2</sup> / 2 kg    |
|   | 16 mm <sup>2</sup> / 2.9 kg  |
| Tensile test result   | Test passed                  |
| Conductor cross section tensile test  | 0.5 mm <sup>2</sup>          |
| Tractive force setpoint   | 20 N                         |
| Conductor cross section tensile test  | 10 mm <sup>2</sup>           |
| Tractive force setpoint   | 90 N                         |
| Conductor cross section tensile test  | 16 mm <sup>2</sup>           |
| Tractive force setpoint   | 100 N                        |
| Result of tight fit on support  | Test passed                  |
| Tight fit on carrier  | NS 32/NS 35                  |
| Setpoint  | 5 N                          |
| Result of voltage-drop test   | Test passed                  |
| Requirements, voltage drop  | ≤ 3.2 mV                     |
| Result of temperature-rise test   | Test passed                  |
| Short circuit stability result  | Test passed                  |
| Conductor cross section short circuit testing   | 10 mm <sup>2</sup>           |
| Short-time current  | 1.2 kA                       |
| Conductor cross section short circuit testing   | 16 mm <sup>2</sup>           |
| Short-time current  | 1.92 kA                      |
| Result of thermal test  | Test passed                  |
| Proof of thermal characteristics (needle flame) effective duration                        | 30 s                         |
| 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                           |

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|   |             |
|---|-------------|
| 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            | 10.2 mm |
| End cover width  | 1.8 mm  |
| Length           | 42.5 mm |
| Height NS 35/7,5 | 47.3 mm |
| Height NS 35/15  | 54.8 mm |
| Height NS 32     | 52.3 mm |

### Connection data

|  |                     |
|--|---------------------|
| Connection method  | Screw connection    |
| Screw thread   | M4                  |
| Stripping length   | 10 mm               |
| Tightening torque, min   | 1.5 Nm              |
| Tightening torque max  | 1.8 Nm              |
| Connection in acc. with standard   | IEC 60947-7-1       |
| Conductor cross section solid min.   | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.   | 16 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 20                  |
| Conductor cross section AWG max.   | 6                   |
| Conductor cross section flexible min.                                      | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 10 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible                                 | 20                  |
| Max. AWG conductor cross section, flexible                                 | 8                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 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.    | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 6 mm <sup>2</sup>   |
| Cross section with insertion bridge, solid max.                            | 10 mm <sup>2</sup>  |
| Cross section with insertion bridge, stranded max.                         | 10 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid min.                           | 0.5 mm <sup>2</sup> |

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### Connection data

|   |                     |
|---|---------------------|
| 2 conductors with same cross section, solid max.  | 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded min.                                     | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded 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. | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 2.5 mm <sup>2</sup> |
| Connection in acc. with standard  | IEC/EN 60079-7      |
| Conductor cross section solid min.  | 0.5 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.   | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 10 mm <sup>2</sup>  |
| Internal cylindrical gage   | B6                  |

### 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   |
| 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   |

### Environmental Product Compliance

|            |   |
|------------|---|
|            | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Approvals

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DNV GL / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / EAC / RS / cULus Recognized

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## Approvals

Ex Approvals

IECEX / ATEX / UL Recognized / cUL Recognized / GL / EAC Ex / cULus Recognized

### Approval details

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00001CT |
|--------|--|---|------------|

|                            |  |   |       |
|----------------------------|--|---|-------|
| 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         |  | 65 A  | 65 A  |
| mm <sup>2</sup> /AWG/kcmil |  | 24-6  | 24-6  |


|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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   | 600 V        |
| Nominal current IN         | 65 A  | 65 A  | 65 A         |
| mm <sup>2</sup> /AWG/kcmil | 24-6  | 24-6  | 24-6         |

|                            |  |   |           |
|----------------------------|--|---|-----------|
| KEMA-KEUR                  |  | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 71-102523 |
|                            |  |   |           |
| Nominal voltage UN         |  | 800 V   |           |
| Nominal current IN         |  | 57 A  |           |
| mm <sup>2</sup> /AWG/kcmil |  | 10  |           |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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   | 600 V        |
| Nominal current IN         | 65 A  | 65 A  | 65 A         |
| mm <sup>2</sup> /AWG/kcmil | 24-6  | 24-6  | 24-6         |

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### Approvals

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

|    |   |   |              |
|----|---|---|--------------|
| RS |  | <a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a> | 17.00013.272 |
|----|---|---|--------------|

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

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