

## Feed-through terminal block - UK 5-MTD N - 3000562

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Screw connection, number of connections: 2, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 24 - 10, width: 8.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15, NS 32

RoHS

### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 STK        |
| GTIN         |               |
| GTIN         | 4046356709026 |

### Technical data

#### General

|  |   |
|--|---|
| Number of levels                       | 1   |
| Number of connections                  | 2   |
| Nominal cross section                  | 4 mm <sup>2</sup>                                     |
| Color                                  | gray  |
| 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   |
| Connection in acc. with standard       | IEC 60947-7-1   |
| Nominal current I <sub>N</sub>         | 32 A  |
| Maximum load current                   | 32 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal voltage U <sub>N</sub>         | 800 V   |
| Open side panel                        | Yes   |
| Shock protection test specification    | DIN EN 50274 (VDE 0660-514):2002-11                   |
| Back of the hand protection            | guaranteed  |

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## Technical data

### General

|   |   |
|---|---|
| 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                        |
|   | 4 mm <sup>2</sup> / 0.9 kg                          |
|   | 6 mm <sup>2</sup> / 1.4 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  | 4 mm <sup>2</sup>                                   |
| Tractive force setpoint   | 60 N  |
| Conductor cross section tensile test  | 6 mm <sup>2</sup>                                   |
| Tractive force setpoint   | 80 N  |
| Result of tight fit on support  | Test passed   |
| Tight fit on carrier  | NS 35   |
| Setpoint  | 1 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   | 4 mm <sup>2</sup>                                   |
| Short-time current  | 0.48 kA   |
| Conductor cross section short circuit testing   | 6 mm <sup>2</sup>                                   |
| Short-time current  | 0.72 kA   |
| Result of thermal test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration                        | 30 s  |
| Oscillation, broadband noise test result  | Test passed   |
| Test specification, oscillation, broadband noise  | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Test spectrum   | Service life test category 1, class B, body mounted |
| Test frequency  | 5 - 150 Hz  |
| ASD level   | 1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz          |
| Acceleration  | 0,8 g   |
| Test duration per axis  | 5 h   |
| Test directions   | X-, Y- and Z-axis                                   |

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## Technical data

### General

|   |                                     |
|---|-------------------------------------|
| Shock test result   | Test passed                         |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03 |
| Shock form  | Half-sine                           |
| Acceleration  | 5 g                                 |
| Shock duration  | 30 ms                               |
| Number of shocks per direction  | 3                                   |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)   |
| 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                              |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 8.2 mm  |
| Length           | 58 mm   |
| Height NS 35/7,5 | 40.3 mm |
| Height NS 35/15  | 47.8 mm |
| Height NS 32     | 45.3 mm |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 6 mm <sup>2</sup>    |
| Conductor cross section flexible min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.  | 24                   |
| Conductor cross section AWG max.  | 10                   |
| 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.              | 4 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.                 | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid min.  | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.  | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                     | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1.5 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. | 2.5 mm <sup>2</sup>  |
| Cross section with insertion bridge, solid max.   | 4 mm <sup>2</sup>    |

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## Technical data

### Connection data

|  |                   |
|--|-------------------|
| Cross section with insertion bridge, stranded max. | 4 mm <sup>2</sup> |
| Connection method                                  | Screw connection  |
| Stripping length                                   | 8 mm              |
| Internal cylindrical gage                          | A4                |
| Screw thread                                       | M3                |
| Tightening torque, min                             | 0.6 Nm            |
| Tightening torque max                              | 0.8 Nm            |

### Standards and Regulations

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

### Environmental Product Compliance

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

## Drawings

Circuit diagram



## Approvals


### Approvals

Approvals

UL Recognized / EAC

Ex Approvals


### Approval details

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

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### Approvals

|                                | B     | C     |
|--------------------------------|-------|-------|
| Nominal current I <sub>N</sub> | 30 A  | 30 A  |
| mm <sup>2</sup> /AWG/kcmil     | 20-10 | 20-10 |

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

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