

## Feed-through terminal block - UK 5 N - 3004362

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 24 - 10, Width: 6.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15, NS 32

### Product Features

- Universal foot which can be used on NS 35... and NS 32... DIN rails
- The UK universal screw terminal block series has the typical features which are decisive for practical applications
- Potential distribution via fixed bridges in the terminal center or insertion bridges in the clamping space



### Key commercial data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 090760 |
| Weight per Piece (excluding packing) | 8.8 GRM   |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Germany   |

### Technical data

#### General

|   |   |
|---|---|
| Number of levels                        | 1   |
| Number of connections                   | 2   |
| Color                                   | gray  |
| Insulating material                     | PA  |
| Inflammability class according to UL 94 | V0  |
| Maximum load current                    | 41 A (with 6 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                     | 8 kV  |

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### Technical data

#### General

|   |                                     |
|---|-------------------------------------|
| Pollution degree  | 3                                   |
| Surge voltage category  | III                                 |
| Insulating material group   | I                                   |
| Connection in acc. with standard  | IEC 60947-7-1                       |
| Nominal current I <sub>N</sub>  | 32 A                                |
| Nominal voltage U <sub>N</sub>  | 800 V                               |
| Open side panel   | ja                                  |
| Shock protection test specification   | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection   | guaranteed                          |
| Finger protection   | guaranteed                          |
| Surge voltage test setpoint   | 9.8 kV                              |
| Result of surge voltage test  | Test passed                         |
| Power frequency withstand voltage setpoint                                      | 2 kV                                |
| Result of power-frequency withstand voltage test                                | Test passed                         |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed                         |
| Bending test rotation speed   | 10 rpm                              |
| Bending test turns  | 135                                 |
| Bending test conductor cross section/weight                                     | 0.2 mm <sup>2</sup> / 0.2 kg        |
|   | 4 mm <sup>2</sup> / 0.9 kg          |
|   | 6 mm <sup>2</sup> / 1.4 kg          |
| Result of bending test  | Test passed                         |
| Conductor cross section tensile test  | 0.2 mm <sup>2</sup>                 |
| Tractive force setpoint   | 10 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                                |
| Tensile test result   | Test passed                         |
| Tight fit on carrier  | NS 32/NS 35                         |
| Setpoint  | 5 N                                 |
| Result of tight fit test  | Test passed                         |
| Requirements, voltage drop  | ≤ 3.2 mV                            |
| Result of voltage drop test   | Test passed                         |
| Temperature-rise test   | Test passed                         |
| Conductor cross section short circuit testing                                   | 4 mm <sup>2</sup>                   |
| Short-time current  | 0.48 kA                             |

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### Technical data

#### General

|   |   |
|---|---|
| Conductor cross section short circuit testing                         | 6 mm <sup>2</sup>                                   |
| Short-time current  | 0.72 kA   |
| Short circuit stability result  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration    | 30 s  |
| Result of thermal test  | 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  | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz    |
| ASD level   | 0.02 g <sup>2</sup> /Hz                             |
| Acceleration  | 0.8 g   |
| Test duration per axis  | 5 h   |
| Test directions   | X-, Y- and Z-axis                                   |
| Oscillation, broadband noise test result                              | Test passed   |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Shock form  | Half-sine   |
| Acceleration  | 5g (10-150-10 Hz)                                   |
| Shock duration  | 30 ms   |
| Number of shocks per direction  | 3   |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)                   |
| Shock test result   | Test passed   |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C  |
| Static insulating material application in cold                        | -60 °C  |

#### Dimensions

|                  |         |
|------------------|---------|
| Width            | 6.2 mm  |
| Length           | 42.5 mm |
| Height NS 35/7,5 | 47 mm   |
| Height NS 35/15  | 54.5 mm |
| Height NS 32     | 52 mm   |

#### Connection data

|  |                     |
|--|---------------------|
| Connection in acc. with standard       | IEC 60947-7-1       |
| Connection method                      | Screw connection    |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.     | 6 mm <sup>2</sup>   |
| Conductor cross section AWG/kcmil min. | 24                  |
| Conductor cross section AWG/kcmil max  | 10                  |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup> |

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### Technical data

#### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section stranded max.   | 4 mm <sup>2</sup>    |
| Min. AWG conductor cross section, stranded  | 24                   |
| Max. AWG conductor cross section, stranded  | 12                   |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 4 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.                 | 2.5 mm <sup>2</sup>  |
| Cross section with insertion bridge, solid max.   | 4 mm <sup>2</sup>    |
| Cross section with insertion bridge, stranded max.                                      | 4 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, 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>  |
| 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>  |
| Cross section with insertion bridge, solid max.   | 4 mm <sup>2</sup>    |
| Cross section with insertion bridge, stranded max.                                      | 4 mm <sup>2</sup>    |
| Stripping length  | 8 mm                 |
| Internal cylindrical gage   | A4                   |
| Screw thread  | M3                   |
| Tightening torque, min  | 0.6 Nm               |
| Tightening torque max   | 0.8 Nm               |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |

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## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 8.0 | 27141120 |
|------------|----------|

### ETIM

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

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

## Approvals

### Approvals

#### Approvals


CSA / UL Recognized / KEMA-KEUR / cUL Recognized / GOST / LR / GL / DNV / RS / PRS / KR / NK / CCA / IECCEB Scheme / GOST / LR / cULus Recognized

#### Ex Approvals

IECEX / ATEX / FM approved / UL Recognized / cUL Recognized / GL / UL Recognized / cUL Recognized / cULus Recognized


#### Approvals submitted


## Approval details


|   |       |
|---|-------|
|  |       |
| mm <sup>2</sup> /AWG/kcmil  | 28-10 |
| Nominal current I <sub>N</sub>  | 40 A  |
| Nominal voltage U <sub>N</sub>  | 600 V |


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### Approvals

|   |       |
|---|-------|
| UL Recognized  |       |
| mm <sup>2</sup> /AWG/kcmil  | 30-10 |
| Nominal current I <sub>N</sub>  | 30 A  |
| Nominal voltage U <sub>N</sub>  | 600 V |

|   |       |
|---|-------|
| KEMA-KEUR  |       |
| mm <sup>2</sup> /AWG/kcmil  | 4     |
| Nominal voltage U <sub>N</sub>  | 800 V |

|  |       |
|--|-------|
| cUL Recognized  |       |
| mm <sup>2</sup> /AWG/kcmil   | 30-10 |
| Nominal current I <sub>N</sub>   | 30 A  |
| Nominal voltage U <sub>N</sub>   | 600 V |

|  |  |
|--|--|
| GOST  |  |
|--|--|

|                                |       |
|--------------------------------|-------|
| LR                             |       |
| mm <sup>2</sup> /AWG/kcmil     | 4     |
| Nominal current I <sub>N</sub> | 32 A  |
| Nominal voltage U <sub>N</sub> | 800 V |

|    |  |
|----|--|
| GL |  |
|----|--|

|     |  |
|-----|--|
| DNV |  |
|-----|--|

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### Approvals

RS


PRS

KR

NK

CCA

|                            |       |
|----------------------------|-------|
| mm <sup>2</sup> /AWG/kcmil | 4     |
| Nominal voltage UN         | 800 V |

IECEE CB Scheme 

|                            |       |
|----------------------------|-------|
| mm <sup>2</sup> /AWG/kcmil | 4     |
| Nominal voltage UN         | 800 V |

GOST 

LR

|                            |       |
|----------------------------|-------|
| mm <sup>2</sup> /AWG/kcmil | 10    |
| Nominal current IN         | 57 A  |
| Nominal voltage UN         | 800 V |

cULus Recognized 

### Drawings

## Feed-through terminal block - UK 5 N - 3004362

Circuit diagram

