

## Feed-through terminal block - UK 2,5 N GN - 0719087

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Screw connection, number of connections: 2, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, width: 5.2 mm, color: green, mounting type: NS 35/7,5, NS 35/15, NS 32


### Your advantages

- ✓ 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

RoHS



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 pc   |
| GTIN         | <br>4 017918 599447 |
| GTIN         | 4017918599447   |

### Technical data

#### General

|   |                         |
|---|-------------------------|
| Number of levels                                | 1                       |
| Number of connections                           | 2                       |
| Potentials                                      | 1                       |
| Nominal cross section                           | 2.5 mm <sup>2</sup>     |
| Color   | green                   |
| Insulating material                             | PA                      |
| Flammability rating according to UL 94          | V2                      |
| Rated surge voltage                             | 8 kV                    |
| Degree of pollution                             | 3                       |
| Overvoltage category                            | III                     |
| Insulating material group                       | I                       |
| Maximum power dissipation for nominal condition | 0.77 W                  |
| Designation                                     | Level 1 above 1 below 1 |

# Feed-through terminal block - UK 2,5 N GN - 0719087

## Technical data

### General

|   |   |
|---|---|
| Maximum load current  | 24 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 24 A  |
| 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  |
| 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   | 0.2 mm <sup>2</sup> / 0.2 kg                              |
|   | 2.5 mm <sup>2</sup> / 0.7 kg                              |
|   | 4 mm <sup>2</sup> / 0.9 kg                                |
| Tensile test result   | Test passed   |
| Conductor cross section tensile test  | 0.2 mm <sup>2</sup>                                       |
| Tractive force setpoint   | 10 N  |
| Conductor cross section tensile test  | 2.5 mm <sup>2</sup>                                       |
| Tractive force setpoint   | 50 N  |
| Conductor cross section tensile test  | 4 mm <sup>2</sup>   |
| Tractive force setpoint   | 60 N  |
| Result of tight fit on support  | Test passed   |
| Tight fit on carrier  | NS 32/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   | 2.5 mm <sup>2</sup>                                       |
| Short-time current  | 0.3 kA  |
| Conductor cross section short circuit testing   | 4 mm <sup>2</sup>   |
| Short-time current  | 0.48 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)                          | 125 °C  |

# Feed-through terminal block - UK 2,5 N GN - 0719087

## Technical data

### General

|   |        |
|---|--------|
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
|---|--------|

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 5.2 mm  |
| End cover width  | 1.5 mm  |
| Length           | 42.5 mm |
| Height NS 35/7,5 | 42 mm   |
| Height NS 35/15  | 49.5 mm |
| Height NS 32     | 47 mm   |

### Connection data

|   |                      |
|---|----------------------|
| Connection method   | Screw connection     |
| Screw thread  | M3                   |
| Stripping length  | 7 mm                 |
| Tightening torque, min  | 0.6 Nm               |
| Tightening torque max   | 0.8 Nm               |
| Connection in acc. with standard  | IEC 60947-7-1        |
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.  | 24                   |
| Conductor cross section AWG max.  | 12                   |
| Conductor cross section flexible min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 2.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible  | 24                   |
| Max. AWG conductor cross section, flexible  | 14                   |
| 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.              | 2.5 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.                 | 1.5 mm <sup>2</sup>  |
| Cross section with insertion bridge, solid max.   | 2.5 mm <sup>2</sup>  |
| Cross section with insertion bridge, stranded 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 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 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. | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |

# Feed-through terminal block - UK 2,5 N GN - 0719087

## Technical data

### Connection data

|   |                     |
|---|---------------------|
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 1 mm <sup>2</sup>   |
| Connection in acc. with standard  | IEC/EN 60079-7      |
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.  | 4 mm <sup>2</sup>   |
| Conductor cross section AWG min.  | 24                  |
| Conductor cross section AWG max.  | 12                  |
| Conductor cross section flexible min.   | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 2.5 mm <sup>2</sup> |
| Internal cylindrical gage   | A3                  |

### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | CSA           |
|  | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V2            |

### 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

### Approvals

#### Approvals

DNV GL / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / IECEE CB Scheme / EAC / cULus Recognized

#### 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 |
|--------|---|---|------------|

# Feed-through terminal block - UK 2,5 N GN - 0719087

## Approvals

|                            |  |   |       |
|----------------------------|--|---|-------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
| Nominal voltage UN         |  | 300 V   |       |
| Nominal current IN         |  | 20 A  |       |
| mm <sup>2</sup> /AWG/kcmil |  | 28-12   |       |

|                            |       |   |              |       |
|----------------------------|-------|---|--------------|-------|
| 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            | D     |
| Nominal voltage UN         | 300 V | 300 V   | 300 V        | 600 V |
| Nominal current IN         | 20 A  | 20 A  | 20 A         | 5 A   |
| mm <sup>2</sup> /AWG/kcmil | 30-12 | 30-12   | 30-12        | 30-12 |

|                            |  |   |            |
|----------------------------|--|---|------------|
| KEMA-KEUR                  |  | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 2183462.01 |
| Nominal voltage UN         |  | 800 V   |            |
| mm <sup>2</sup> /AWG/kcmil |  | 2.5   |            |

|                            |       |   |              |       |
|----------------------------|-------|---|--------------|-------|
| 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            | D     |
| Nominal voltage UN         | 300 V | 300 V   | 300 V        | 600 V |
| Nominal current IN         | 20 A  | 20 A  | 20 A         | 5 A   |
| mm <sup>2</sup> /AWG/kcmil | 30-12 | 30-12   | 30-12        | 30-12 |

|                            |  |   |          |
|----------------------------|--|---|----------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | NL-26110 |
| Nominal voltage UN         |  | 800 V   |          |
| mm <sup>2</sup> /AWG/kcmil |  | 2.5   |          |

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

## Feed-through terminal block - UK 2,5 N GN - 0719087

### Approvals

cULus Recognized



Phoenix Contact 2019 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>