

**WDK 2.5N BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****Klippon® Connect with clamping yoke Technology**

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

**General ordering data**

|            |                                                                                 |
|------------|---------------------------------------------------------------------------------|
| Version    | Double-tier terminal, Screw connection, 2.5 mm <sup>2</sup> , 800 V, 24 A, blue |
| Order No.  | <a href="#">1041680000</a>                                                      |
| Type       | WDK 2.5N BL                                                                     |
| GTIN (EAN) | 4032248139118                                                                   |
| Qty.       | 50 pc(s).                                                                       |

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 62 mm      | Depth (inches) | 2.441 inch |
| Depth including DIN rail | 62.45 mm   | Height         | 61 mm      |
| Height (inches)          | 2.402 inch | Net weight     | 11.024 g   |
| Width                    | 5.1 mm     | Width (inches) | 0.201 inch |

## Temperatures

|                                  |                |                                  |                                                                                                   |
|----------------------------------|----------------|----------------------------------|---------------------------------------------------------------------------------------------------|
| Storage temperature              |                | Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                  | -25 °C...55 °C |                                  |                                                                                                   |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C                                                                                            |

## Material data

|                           |       |        |      |
|---------------------------|-------|--------|------|
| Material                  | Wemid | Colour | blue |
| UL 94 flammability rating | V-0   |        |      |

## Rating data IECEx/ATEX

|                                 |                        |                                |                                                                                                   |
|---------------------------------|------------------------|--------------------------------|---------------------------------------------------------------------------------------------------|
| Certificate No. (ATEX)          | DEMKO15ATEX1346U       | ATEX certificate               | KEMA00ATEX2061U_e.pdf                                                                             |
| ATEX certificate                | KEMA00ATEX2061U_d.pdf  | Certificate No. (IECEX)        | IECEXULD15.0003U                                                                                  |
| IEC Ex certificate              | IECEXULD05.0008U_e.pdf | Max. voltage (ATEX)            | 550 V                                                                                             |
| Current (ATEX)                  | 21 A                   | Wire cross section max. (ATEX) | 4 mm <sup>2</sup>                                                                                 |
| Max. voltage (IECEX)            | 550 V                  | Current (IECEX)                | 21 A                                                                                              |
| Wire cross section max. (IECEX) |                        | Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                 | 4 mm <sup>2</sup>      |                                |                                                                                                   |
| Marking EN 60079-7              | Ex eb II C Gb          | Ex 2014/34/EU label            | II 2 G D                                                                                          |

## System specifications

|                                     |                                                                          |                               |     |
|-------------------------------------|--------------------------------------------------------------------------|-------------------------------|-----|
| Version                             | Screw connection, for plug-in cross-connector, One end without connector | End cover plate required      | Yes |
| Number of potentials                | 2                                                                        | Number of levels              | 2   |
| Number of clamping points per level | 2                                                                        | Number of potentials per tier | 1   |
| Levels cross-connected internally   | No                                                                       | PE connection                 | No  |
| Rail                                | TS 35                                                                    | N-function                    | Yes |
| PE function                         | No                                                                       | PEN function                  | No  |

## 2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

|                                                                                                            |                     |                                                                                                            |                     |
|------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------|---------------------|
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 1.5 mm <sup>2</sup> | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, two clampable wires, min.                                  | 0.5 mm <sup>2</sup> | Wire cross-section, finely stranded, two clampable wires, max.                                             | 1.5 mm <sup>2</sup> |

## Additional technical data

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | Yes   | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

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## CSA rating data

|                               |                |                               |        |
|-------------------------------|----------------|-------------------------------|--------|
| Certificate No. (CSA)         | 200039-1057876 | Current size C (CSA)          | 20 A   |
| Current size D (CSA)          | 5 A            | Voltage size C (CSA)          | 300 V  |
| Voltage size D (CSA)          | 600 V          | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG         |                               |        |

## Conductors for clamping (rated connection)

|                                                                                         |                      |                                                                                         |                     |
|-----------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------|---------------------|
| Blade size                                                                              | 0.6 x 3.5 mm         | Clamping range, max.                                                                    | 4 mm <sup>2</sup>   |
| Clamping range, min.                                                                    | 0.05 mm <sup>2</sup> | Clamping screw                                                                          | M 2.5               |
| Connection cross-section, stranded, max.                                                | 4 mm <sup>2</sup>    | Connection cross-section, stranded, min.                                                | 1.5 mm <sup>2</sup> |
| Connection direction                                                                    | on side              | Gauge to IEC 60947-1                                                                    | A3                  |
| Number of connections                                                                   | 4                    | Stripping length                                                                        | 8 mm                |
| Tightening torque, max.                                                                 | 0.6 Nm               | Tightening torque, min.                                                                 | 0.4 Nm              |
| Torque level with DMS electric screwdriver                                              | 1                    | Type of connection                                                                      | Screw connection    |
| Wire connection cross section AWG, max.                                                 | AWG 12               | Wire connection cross section AWG, min.                                                 | AWG 30              |
| Wire connection cross section, finely stranded, max.                                    | 4 mm <sup>2</sup>    | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm <sup>2</sup>  | Wire connection cross-section, solid core, max.                                         | 4 mm <sup>2</sup>   |
| Wire connection cross-section, solid core, min.                                         | 0.5 mm <sup>2</sup>  |                                                                                         |                     |

## General

|                                         |        |                                         |               |
|-----------------------------------------|--------|-----------------------------------------|---------------|
| Rail                                    | TS 35  | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 30        |

## Rating data

|                                              |         |                                 |                     |
|----------------------------------------------|---------|---------------------------------|---------------------|
| Power loss in accordance with IEC 60947-7-x  | 0.77 W  | Rated cross-section             | 2.5 mm <sup>2</sup> |
| Rated voltage                                | 800 V   | Rated current                   | 24 A                |
| Current at maximum wires                     | 28 A    | Standards                       | IEC 60947-7-1       |
| Volume resistance according to IEC 60947-7-x | 2.66 mΩ | Rated impulse withstand voltage | 8 kV                |
| Pollution severity                           | 3       |                                 |                     |

## UL rating data

|                   |        |                   |        |
|-------------------|--------|-------------------|--------|
| UL_current_Print  | 20 A   | UL_voltage_Print  | 600 V  |
| UL_wire_max_Print | 12 AWG | UL_wire_min_Print | 26 AWG |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ECLASS 9.0  | 27-14-11-20 | ECLASS 9.1  | 27-14-11-20 |
| ECLASS 10.0 | 27-14-11-20 | ECLASS 11.0 | 27-14-11-20 |

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## Technical data

### Approvals

Approvals



ROHS

Conform

### Downloads

Approval/Certificate/Document of  
Conformity

[Attestation of Conformity](#)  
[IECEX Certificate](#)  
[ATEX Certificate](#)  
[ATEX Certificate](#)  
[CB Test Certificate](#)  
[CB Certificate](#)  
[EAC certificate](#)  
[EAC EX Certificate](#)  
[CCC Ex Certificate](#)  
[Declaration of Conformity](#)  
[Declaration of Conformity](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD, Zuken E3.S](#)

User Documentation

[StorageConditionsTerminalBlocks](#)  
[NTI WDK 2.5 WPE 2.5N PE](#)  
[NTI WDK 2.5N DU PE](#)

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## Drawings

