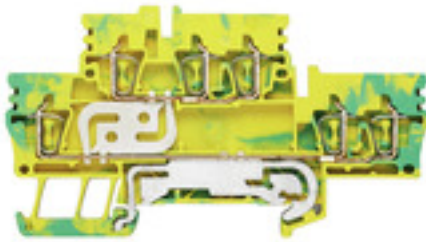


**ZDK 2.5/3AN PE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

**General ordering data**

|            |                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| Version    | Double-tier terminal, Tension-clamp connection, 2.5 mm <sup>2</sup> , 800 V, 300 A (2.5 mm <sup>2</sup> ), Green/yellow |
| Order No.  | <a href="#">1924470000</a>                                                                                              |
| Type       | ZDK 2.5/3AN PE                                                                                                          |
| GTIN (EAN) | 4032248563906                                                                                                           |
| Qty.       | 50 pc(s).                                                                                                               |

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**Technical data****Dimensions and weights**

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 50.5 mm    | Depth (inches) | 1.988 inch |
| Depth including DIN rail | 51.5 mm    | Height         | 93 mm      |
| Height (inches)          | 3.661 inch | Width          | 5.1 mm     |
| Width (inches)           | 0.201 inch | Net weight     | 20.66 g    |

**Temperatures**

|                                  |                |                                  |               |
|----------------------------------|----------------|----------------------------------|---------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -5 °C...40 °C |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C        |

**Material data**

|                           |       |        |              |
|---------------------------|-------|--------|--------------|
| Material                  | Wemid | Colour | Green/yellow |
| UL 94 flammability rating | V-0   |        |              |

**Rating data IECEx/ATEX**

|                                |                     |                                 |                     |
|--------------------------------|---------------------|---------------------------------|---------------------|
| Certificate No. (ATEX)         | DEMKO16ATEX1729U    | Certificate No. (IECEx)         | IECExULD16.0025U    |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup> | Wire cross section max. (IECEx) | 2.5 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                           | Tension-clamp connection,<br>With PE connection, One<br>end without connector | End cover plate required            | Yes |
| Number of levels                  | 2                                                                             | Number of clamping points per level | 3   |
| Levels cross-connected internally | Yes                                                                           | PE connection                       | Yes |
| Rail                              | TS 35                                                                         | PE function                         | Yes |
| PEN function                      | No                                                                            |                                     |     |

**Additional technical data**

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | Yes   | Mounting plate every 200 mm | No      |
| Open sides               | right | Type of mounting            | Snap-on |

**CSA rating data**

|                               |                |                               |        |
|-------------------------------|----------------|-------------------------------|--------|
| Certificate No. (CSA)         | 200039-1842498 | Current size B (CSA)          | 24 A   |
| Current size C (CSA)          | 24 A           | Voltage size B (CSA)          | 300 V  |
| Voltage size C (CSA)          | 300 V          | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 30 AWG         |                               |        |

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## Technical data

## 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> | Connection cross-section, stranded, max.                                                | 2.5 mm <sup>2</sup>      |
| Connection cross-section, stranded, min.                                                | 0.5 mm <sup>2</sup>  | Connection direction                                                                    | top                      |
| Gauge to IEC 60947-1                                                                    | A2                   | Number of connections                                                                   | 6                        |
| Stripping length                                                                        | 10 mm                | Type of connection                                                                      | Tension-clamp connection |
| Wire connection cross section AWG, max.                                                 | AWG 12               | Wire connection cross section AWG, min.                                                 | AWG 24                   |
| Wire connection cross section, finely stranded, max.                                    | 2.5 mm <sup>2</sup>  | Wire connection cross section, finely stranded, min.                                    | 0.5 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. | 0.5 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>      |

## Dimensions

|              |         |
|--------------|---------|
| TS 35 offset | 25.5 mm |
|--------------|---------|

## General

|                                         |        |                                         |               |
|-----------------------------------------|--------|-----------------------------------------|---------------|
| Rail                                    | TS 35  | Standards                               | IEC 60947-7-2 |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 24        |

## Rating data

|                                             |                     |                                                      |         |
|---------------------------------------------|---------------------|------------------------------------------------------|---------|
| Rated cross-section                         | 2.5 mm <sup>2</sup> | Rated voltage                                        | 800 V   |
| Rated voltage to adjoining terminal         | 800 V               | Rated DC voltage                                     | 800 V   |
| Standards                                   | IEC 60947-7-2       | Volume resistance according to IEC 60947-7-x         | 1.33 mΩ |
| Rated impulse withstand voltage             | 8 kV                | Rated impulse withstand voltage to adjacent terminal | 8 kV    |
| Power loss in accordance with IEC 60947-7-x | 0.77 W              | Pollution severity                                   | 3       |

## UL rating data

|                                            |        |                                            |        |
|--------------------------------------------|--------|--------------------------------------------|--------|
| Certificate No. (cURus)                    | E60693 | Conductor size Factory wiring max. (cURus) | 12 AWG |
| Conductor size Factory wiring min. (cURus) | 30 AWG | Conductor size Field wiring max. (cURus)   | 12 AWG |
| Conductor size Field wiring min. (cURus)   | 30 AWG |                                            |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 7.0    | EC000901    | ETIM 8.0    | EC000901    |
| ETIM 9.0    | EC000901    | ETIM 10.0   | EC000901    |
| ECLASS 11.0 | 27-14-11-41 | ECLASS 12.0 | 27-14-11-41 |
| ECLASS 13.0 | 27-25-01-04 | ECLASS 14.0 | 27-25-01-04 |
| ECLASS 15.0 | 27-25-01-04 |             |             |

Cradle to gate

0.241 kg CO<sub>2</sub> eq.

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## Technical data

## Environmental Product Compliance

|                          |                                               |
|--------------------------|-----------------------------------------------|
| RoHS Compliance Status   | Compliant without exemption                   |
| REACH SVHC               | No SVHC above 0.1 wt%                         |
| Product Carbon Footprint | de.myview.objectmodel.impl.BlockImpl@780b1f5d |

## Approvals

Approvals



|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319217/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319217/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319242/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319242/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E60693     |

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">UKCA Ex Attestation of Conformity</a><br><a href="#">ATEX Certificate</a><br><a href="#">IECEx Certificate</a><br><a href="#">INMETRO certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">UKCA Ex Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">UKCA declaration of conformity</a><br><a href="#">Confirmation of Standards EN 45545-2_2020-10</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                            |
| User Documentation                          | <a href="#">NTI ZDK-PE 2.5/3AN</a><br><a href="#">NTI ZDK-PE 2.5/3AN V</a><br><a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">User Manual Z-Series</a>                                                                                                                                                                                                                                                                                      |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Brochures                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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## Drawings

