

**DLD 2.5 DB****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

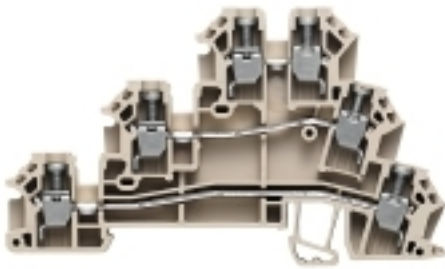
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**Product image**

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

**General ordering data**

|            |                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------|
| Version    | W-Series, Initiator/actuator terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Screw connection |
| Order No.  | <a href="#">1784180000</a>                                                                         |
| Type       | DLD 2.5 DB                                                                                         |
| GTIN (EAN) | 4032248189854                                                                                      |
| Qty.       | 50 pc(s).                                                                                          |

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 48.5 mm    | Depth (inches) | 1.909 inch |
| Depth including DIN rail | 49 mm      | Height         | 82.5 mm    |
| Height (inches)          | 3.248 inch | Width          | 6.2 mm     |
| Width (inches)           | 0.244 inch | Net weight     | 15.84 g    |

## Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature              | -25 °C...55 °C | Continuous operating temp., min. | -50 °C |
| Continuous operating temp., max. | 120 °C         |                                  |        |

## Material data

|                           |       |        |            |
|---------------------------|-------|--------|------------|
| Material                  | Wemid | Colour | dark beige |
| UL 94 flammability rating | V-0   |        |            |

## System specifications

|                                     |                                             |                               |     |
|-------------------------------------|---------------------------------------------|-------------------------------|-----|
| Version                             | Screw connection, One end without connector | End cover plate required      | Yes |
| Number of potentials                | 3                                           | Number of levels              | 3   |
| 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                    | No  |
| 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 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 mm <sup>2</sup>   |

## Additional technical data

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | No    | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

## CSA rating data

|                               |           |                               |        |
|-------------------------------|-----------|-------------------------------|--------|
| Certificate No. (CSA)         | 12400-134 | Current size C (CSA)          | 10 A   |
| Voltage size C (CSA)          | 300 V     | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG    |                               |        |

## Conductors for clamping (additional connection)

|                                                                                             |                     |
|---------------------------------------------------------------------------------------------|---------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 2.5 mm <sup>2</sup> |
|---------------------------------------------------------------------------------------------|---------------------|

## Conductors for clamping (rated connection)

|            |              |
|------------|--------------|
| Blade size | 0.6 x 3.5 mm |
|------------|--------------|

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## Technical data

|                                                      |                                        |                              |                       |        |
|------------------------------------------------------|----------------------------------------|------------------------------|-----------------------|--------|
| Clampable conductor                                  | Connection specification               | Screw connection             |                       |        |
|                                                      | Cross-section for conductor connection | Type                         | solid, H05(07) V-U    |        |
|                                                      |                                        | min.                         | 0.5 mm <sup>2</sup>   |        |
|                                                      |                                        | max.                         | 4 mm <sup>2</sup>     |        |
|                                                      |                                        | nominal                      | 2.5 mm <sup>2</sup>   |        |
|                                                      | wire end ferrule                       | Stripping length             | min.                  | 7 mm   |
|                                                      |                                        |                              | max.                  | 7 mm   |
|                                                      |                                        |                              | nominal               | 7 mm   |
|                                                      |                                        | Tightening torque            | min.                  | 0.4 Nm |
|                                                      |                                        |                              | max.                  | 0.6 Nm |
|                                                      |                                        | Recommended wire-end ferrule |                       |        |
|                                                      |                                        | Connection specification     | Screw connection      |        |
|                                                      | Cross-section for conductor connection | Type                         | stranded, H07V-R      |        |
|                                                      |                                        | min.                         | 0.5 mm <sup>2</sup>   |        |
|                                                      |                                        | max.                         | 4 mm <sup>2</sup>     |        |
|                                                      |                                        | nominal                      | 2.5 mm <sup>2</sup>   |        |
|                                                      | wire end ferrule                       | Stripping length             | min.                  | 7 mm   |
|                                                      |                                        |                              | max.                  | 7 mm   |
|                                                      |                                        |                              | nominal               | 7 mm   |
|                                                      |                                        | Tightening torque            | min.                  | 0.4 Nm |
|                                                      |                                        |                              | max.                  | 0.6 Nm |
|                                                      |                                        | Recommended wire-end ferrule |                       |        |
|                                                      |                                        | Connection specification     | Screw connection      |        |
|                                                      | Cross-section for conductor connection | Type                         | flexible, H05(07) V-K |        |
|                                                      |                                        | min.                         | 0.5 mm <sup>2</sup>   |        |
| max.                                                 |                                        | 4 mm <sup>2</sup>            |                       |        |
| nominal                                              |                                        | 2.5 mm <sup>2</sup>          |                       |        |
| wire end ferrule                                     | Stripping length                       | min.                         | 7 mm                  |        |
|                                                      |                                        | max.                         | 7 mm                  |        |
|                                                      |                                        | nominal                      | 7 mm                  |        |
|                                                      | Tightening torque                      | min.                         | 0.4 Nm                |        |
|                                                      |                                        | max.                         | 0.6 Nm                |        |
|                                                      | Recommended wire-end ferrule           |                              |                       |        |
|                                                      | Clamping range, max.                   | 4 mm <sup>2</sup>            |                       |        |
| Clamping range, min.                                 | 0.13 mm <sup>2</sup>                   |                              |                       |        |
| Clamping screw                                       | M 2.5                                  |                              |                       |        |
| Connection cross-section, stranded, max.             | 4 mm <sup>2</sup>                      |                              |                       |        |
| Connection cross-section, stranded, min.             | 0.5 mm <sup>2</sup>                    |                              |                       |        |
| Connection direction                                 | on side                                |                              |                       |        |
| Gauge to IEC 60947-1                                 | A3                                     |                              |                       |        |
| Number of connections                                | 6                                      |                              |                       |        |
| Stripping length                                     | 7 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 26                                 |                              |                       |        |
| Wire connection cross section, finely stranded, max. | 4 mm <sup>2</sup>                      |                              |                       |        |
| Wire connection cross section, finely stranded, min. | 0.5 mm <sup>2</sup>                    |                              |                       |        |

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**Technical data**

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| 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, 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 26        |

**Rating data**

|                                 |                     |                                              |         |
|---------------------------------|---------------------|----------------------------------------------|---------|
| Rated cross-section             | 2.5 mm <sup>2</sup> | Rated voltage                                | 250 V   |
| Rated current                   | 24 A                | Current at maximum wires                     | 24 A    |
| Standards                       | IEC 60947-7-1       | Volume resistance according to IEC 60947-7-x | 3.99 mΩ |
| Rated impulse withstand voltage | 4 kV                | Power loss in accordance with IEC 60947-7-x  | 0.77 W  |
| Pollution severity              | 3                   |                                              |         |

**UL rating data**

|                                         |        |                                         |        |
|-----------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 26 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |
| Conductor size Field wiring min. (UR)   | 22 AWG | Current size D (UR)                     | 10 A   |
| Voltage size D (UR)                     | 300 V  |                                         |        |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000900    | ETIM 7.0    | EC000900    |
| ETIM 8.0    | EC000900    | ECLASS 9.0  | 27-14-11-28 |
| ECLASS 9.1  | 27-14-11-28 | ECLASS 10.0 | 27-14-11-28 |
| ECLASS 11.0 | 27-14-11-28 | ECLASS 12.0 | 27-14-11-28 |

**Approvals**

Approvals



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

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Engineering Data

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## Drawings

