

## Bolt-type screw terminals WF 8/2BZ

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)



The comprehensive range of bolt-type screw terminals offers secure connections for all power transmission applications.

Connections from 10 mm<sup>2</sup> to 300 mm<sup>2</sup> are possible. The conductors are attached to the terminals using crimped cable lugs and each connection secured by tightening the hexagonal nut.

Bolt-type screw terminals with threads from M5 to M16 can be used depending on the conductor cross-section. A low voltage drop and the use of a self-extinguishing material with a V-0 (UL 94) flammability rating guarantee maximum safety.

All bolt-type screw terminals have been tested according to international railway standards (EN 50343, EN 50155, NF F61-017, NF16-101; Ria 20) and comply with the requirements of those standards.

### General ordering data

|            |                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------|
| Type       | WF 8/2BZ                                                                                                             |
| Order No.  | <a href="#">1789780000</a>                                                                                           |
| Version    | Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 50 mm <sup>2</sup> , Threaded stud connection |
| GTIN (EAN) | 4032248251148                                                                                                        |
| Qty.       | 25 pc(s).                                                                                                            |

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**Technische Daten****Dimensions and weights**

|            |           |                          |         |
|------------|-----------|--------------------------|---------|
| Length     | 67 mm     | Width                    | 22.8 mm |
| Height     | 63.5 mm   | Height of lowest version | 65 mm   |
| Net weight | 121.554 g |                          |         |

**Temperatures**

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

**Additional technical data**

|                          |         |            |      |
|--------------------------|---------|------------|------|
| Explosion-tested version | No      | Open sides | Open |
| Type of mounting         | Snap-on |            |      |

**CSA ratings data**

|                       |                |                      |        |
|-----------------------|----------------|----------------------|--------|
| Certificate No. (CSA) | 200039-1244019 | Voltage size C (CSA) | 1000 V |
| Current size C (CSA)  | 150 A          |                      |        |

**Clampable wires (rated connection)**

|                                                      |                          |                                                      |                     |
|------------------------------------------------------|--------------------------|------------------------------------------------------|---------------------|
| Type of connection                                   | Threaded stud connection | Clamping range, rated connection, min.               | 2.5 mm <sup>2</sup> |
| Clamping range, rated connection, max.               | 50 mm <sup>2</sup>       | Tightening torque, min.                              | 6 Nm                |
| Tightening torque, max.                              | 12 Nm                    | Wire connection cross section, finely stranded, max. | 50 mm <sup>2</sup>  |
| Wire connection cross-section, finely stranded, min. | 2.5 mm <sup>2</sup>      |                                                      |                     |

**Rated data**

|                                 |                    |                    |         |
|---------------------------------|--------------------|--------------------|---------|
| Rated cross-section             | 50 mm <sup>2</sup> | Rated voltage      | 1,000 V |
| Rated impulse withstand voltage | 8 kV               | Rated current      | 150 A   |
| Current at maximum wires        | 150 A              | Pollution severity | 3       |

**Stud connection**

|                                          |                        |                                          |                          |
|------------------------------------------|------------------------|------------------------------------------|--------------------------|
| Tightening torque, min.                  | 6 Nm                   | Tightening torque, max.                  | 12 Nm                    |
| Stud size for spade connection           | M 8                    | Cable lug to DIN 46234                   | 2.5...50 mm <sup>2</sup> |
| Cable lug to DIN 46235                   | 6...35 mm <sup>2</sup> | Clamping range, bolted connection , min. | 2.5 mm <sup>2</sup>      |
| Clamping range, bolted connection , max. | 50 mm <sup>2</sup>     |                                          |                          |

**UL ratings data**

|                                         |        |                                            |        |
|-----------------------------------------|--------|--------------------------------------------|--------|
| Certificate No. (cURus)                 | E60693 | Conductor size Factory wiring max. (cURus) | 0 AWG  |
| Current size C (cURus)                  | 150 A  | Voltage size C (cURus)                     | 1000 V |
| Certificate No. (UR)                    | E60693 | Voltage size C (UR)                        | 1000 V |
| Current size C (UR)                     | 150 A  | Conductor size Factory wiring max. (UR)    | 0 AWG  |
| Conductor size Factory wiring min. (UR) | 14 AWG | Conductor size Field wiring max. (UR)      | 0 AWG  |

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## Technische Daten

### Material data

|                           |       |        |            |
|---------------------------|-------|--------|------------|
| Material                  | Wemid | Colour | Dark Beige |
| UL 94 flammability rating | V-0   |        |            |

### System specifications

|                                   |                           |                                  |                          |
|-----------------------------------|---------------------------|----------------------------------|--------------------------|
| Product family                    | Bolt-type screw terminals | Type of connection               | Threaded stud connection |
| Number of levels                  | 1                         | No. of clamping points per level | 2                        |
| Levels cross-connected internally | No                        | Mounting rail                    | TS 35                    |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC002020    | UNSPSC     | 30-21-18-01 |
| eClass 6.2 | 27-14-11-20 | eClass 7.1 | 27-14-11-20 |

### Product information

|                                |                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Descriptive text ordering data | 1000 VDC rated voltage tested. 1000 V UL and CSA for use groups B and C: can be used with isolating DIN rails and when using WTW-type partitions. |
| Descriptive text accessories   | With WTW...2300 made from epoxy resin, rated current 2300 V according to prelim. EN 50124 pt 1                                                    |

### Approvals

Approvals



ROHS Conform

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## Zeichnungen

