

## OMNIMATE Power - series WGK WGK 16/Z GN/YE BX

**Weidmüller Interface GmbH & Co. KG**  
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The WGK finger-proof-insulated enclosures are especially suitable as industrial electronic enclosures for frequency converters, power supplies or filter components which offer a convenient and reliable form of connection internally and externally. To match the wire guides to the installation requirements in the best possible way, Weidmüller offers two versions with horizontal (WGK) and vertical (WGKV) outlet directions.

### General ordering data

|              |   |
|--------------|---|
| Type         | WGK 16/Z GN/YE BX   |
| Order No.    | <a href="#">2440570000</a>  |
| Version      | OMNIMATE Power - series WGK, Feedthrough terminal, Rated cross-section: 16 mm <sup>2</sup> , Wemid (PA) |
| GTIN (EAN)   | 4050118468168   |
| Qty.         | 50 pc(s).   |
| Product data | IEC: 500 V / 76 A / 0.5 - 25 mm <sup>2</sup><br>UL: 600 V / 85 A / AWG 20 - AWG 4                       |
| Packaging    | Box   |

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

Net weight 33.76 g

**System parameters**

|                            |                             |  |                  |
|----------------------------|-----------------------------|--|------------------|
| Product family             | OMNIMATE Power - series WGK | Wire connection method                     | Screw connection |
| Conductor outlet direction | 180°                        | Fitted by customer                         | Yes              |
| Screwdriver blade          | 1.0 x 5.5                   | Tightening torque, min.                    | 2 Nm             |
| Tightening torque, max.    | 2.3 Nm                      | Clamping screw                             | M 5              |
| Stripping length           | 16 mm                       | Touch-safe protection acc. to DIN VDE 0470 | IP 20            |

**Material data**

|                                       |               |                                       |                |
|---------------------------------------|---------------|---------------------------------------|----------------|
| Insulating material                   | Wemid (PA)    | Colour                                | green / yellow |
| Colour chart (similar)                | Not specified | UL 94 flammability rating             | V-0            |
| Contact material                      | E-Cu          | Contact surface                       | tinned         |
| Storage temperature, min.             | -25 °C        | Storage temperature, max.             | 55 °C          |
| Max. relative humidity during storage | 80 %          | Operating temperature, min.           | -50 °C         |
| Operating temperature, max.           | 120 °C        | Temperature range, installation, min. | -25 °C         |
| Temperature range, installation, max. | 120 °C        |                                       |                |

**Conductors suitable for connection**

|   |                     |   |                    |
|---|---------------------|---|--------------------|
| Clamping range, min.                      | 0.5 mm <sup>2</sup> | Clamping range, max.                      | 25 mm <sup>2</sup> |
| Wire connection cross section AWG, min.   | AWG 20              | Wire connection cross section AWG, max.   | AWG 4              |
| Solid, min. H05(07) V-U                   | 0.5 mm <sup>2</sup> | Solid, max. H05(07) V-U                   | 16 mm <sup>2</sup> |
| Stranded, min. H07V-R                     | 10 mm <sup>2</sup>  | Stranded, max. H07V-R                     | 25 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K                | 0.5 mm <sup>2</sup> | Flexible, max. H05(07) V-K                | 16 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.5 mm <sup>2</sup> | w. wire end ferrule, DIN 46228 pt 1, max. | 16 mm <sup>2</sup> |

**Rated data acc. to IEC**

|   |                        |  |       |
|---|------------------------|--|-------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Tu=20°C)                     | 76 A  |
| Rated current, max. no. of poles (Tu=20°C)                                | 76 A                   | Rated voltage for surge voltage class / pollution degree III/3 | 500 V |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 6 kV                   |  |       |

**Rated data acc. to CSA**

|                               |        |                               |       |
|-------------------------------|--------|-------------------------------|-------|
| Rated voltage (Use group B)   | 600 V  | Rated voltage (Use group C)   | 600 V |
| Rated current (use group B)   | 85 A   | Rated current (use group C)   | 85 A  |
| Wire cross-section, AWG, min. | AWG 20 | Wire cross-section, AWG, max. | AWG 4 |

## Data sheet

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## Technical data

### Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

|                               |  |                               |       |
|-------------------------------|--|-------------------------------|-------|
| Rated voltage (use group B)   | 600 V  | Rated voltage (use group C)   | 600 V |
| Rated current (use group B)   | 85 A   | Rated current (use group C)   | 85 A  |
| Wire cross-section, AWG, min. | AWG 20   | Wire cross-section, AWG, max. | AWG 4 |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate. |                               |       |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 6.0   | EC001283    | eClass 6.2 | 27-14-11-34 |
| eClass 9.1 | 27-14-11-34 |            |             |

### Notes

Notes

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V

### Approvals

Approvals



ROHS Conform

### Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>   |
| Brochure/Catalogue                          | <a href="#">FL DRIVES EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">FL_BASE_STATION_EN</a><br><a href="#">FL ELEVATOR EN</a><br><a href="#">FL POWER SUPPLY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a> |
| Engineering Data                            | <a href="#">STEP</a>  |

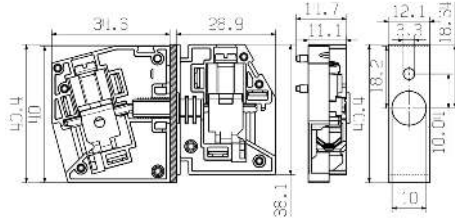
**Data sheet**

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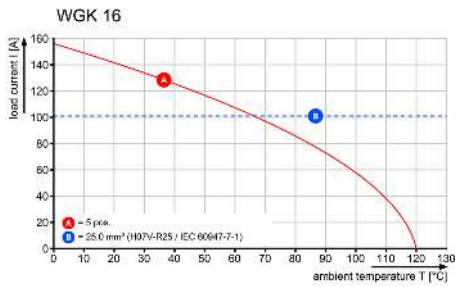
**Drawings**

**Dimensional drawing**



WGK 16/Z...

**Graph**



**Graph**

