

## OMNIMATE Power - series WGK WGK 10 GN/YE BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
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Germany  
Fon: +49 5231 14-0  
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### Product image



Similar to illustration

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 10 GN/YE BX  |
| Order No.    | <a href="#">2439380000</a>   |
| Version      | OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 10 mm <sup>2</sup> , Wemid (PA) |
| GTIN (EAN)   | 4050118468359  |
| Qty.         | 50 pc(s).  |
| Product data | IEC: 500 V / 57 A / 0.5 - 16 mm <sup>2</sup><br>UL: 300 V / 65 A / AWG 24 - AWG 6                        |
| Packaging    | Box  |

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## Technical data

### Dimensions and weights

Net weight 19.66 g

### System parameters

|                            |                             |  |                  |
|----------------------------|-----------------------------|--|------------------|
| Product family             | OMNIMATE Power - series WGK | Wire connection method                     | Screw connection |
| Conductor outlet direction | 180°                        | Fitted by customer                         | No               |
| Screwdriver blade          | 0.8 x 4.0                   | Tightening torque, min.                    | 1.2 Nm           |
| Tightening torque, max.    | 2.4 Nm                      | Clamping screw                             | M 4              |
| Stripping length           | 11 mm                       | Touch-safe protection acc. to DIN VDE 0470 | IP 20            |

### Material data

|                                       |               |                                       |              |
|---------------------------------------|---------------|---------------------------------------|--------------|
| Insulating material                   | Wemid (PA)    | Colour code                           | 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.                      | 16 mm <sup>2</sup>                     |                  |                      |
| Wire connection cross section AWG, min.   | AWG 24                                 |                  |                      |
| Wire connection cross section AWG, max.   | AWG 6                                  |                  |                      |
| 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                     | 16 mm <sup>2</sup>                     |                  |                      |
| Flexible, min. H05(07) V-K                | 0.5 mm <sup>2</sup>                    |                  |                      |
| Flexible, max. H05(07) V-K                | 10 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. | 10 mm <sup>2</sup>                     |                  |                      |
| Clampable conductor                       | Cross-section for conductor connection | Type             | fine-wired           |
|   |  | nominal          | 0.5 mm <sup>2</sup>  |
|   | AEH                                    | Stripping length | nominal 10 mm        |
|   | Cross-section for conductor connection | Type             | fine-wired           |
|   |  | nominal          | 0.75 mm <sup>2</sup> |
|   | AEH                                    | Stripping length | nominal 10 mm        |
|   | Cross-section for conductor connection | Type             | fine-wired           |
|   |  | nominal          | 1 mm <sup>2</sup>    |
|   | AEH                                    | Stripping length | nominal 10 mm        |
| Max. clamping range                       | 16 mm <sup>2</sup>                     |                  |                      |

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**Technical data**
**Rated data acc. to IEC**

|  |                        |   |       |
|--|------------------------|---|-------|
| tested acc. to standard  | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles<br>(Tu=20°C)                     | 57 A  |
| Rated current, max. no. of poles<br>(Tu=20°C)                                | 57 A                   | Rated voltage for surge voltage class /<br>pollution degree III/3 | 500 V |
| Rated impulse voltage for surge voltage<br>class/ contamination degree III/3 | 6 kV                   |   |       |

**Rated data acc. to CSA**

|                                   |        |                                   |       |
|-----------------------------------|--------|-----------------------------------|-------|
| Rated voltage (Use group B / CSA) | 300 V  | Rated voltage (Use group C / CSA) | 300 V |
| Rated current (Use group B / CSA) | 65 A   | Rated current (Use group C / CSA) | 65 A  |
| Wire cross-section, AWG, min.     | AWG 24 | Wire cross-section, AWG, max.     | AWG 6 |

**Rated data acc. to UL 1059**

|                                       |        |                                       |       |
|---------------------------------------|--------|---------------------------------------|-------|
| Rated voltage (Use group B / UL 1059) | 300 V  | Rated voltage (Use group C / UL 1059) | 300 V |
| Rated current (Use group B / UL 1059) | 65 A   | Rated current (Use group C / UL 1059) | 65 A  |
| Wire cross-section, AWG, min.         | AWG 24 | Wire cross-section, AWG, max.         | AWG 6 |

**Packing**

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 0.21 m |
| VPE width | 0.13 m | VPE height | 0.08 m |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 6.0   | EC001283    | eClass 6.2 | 27-14-11-34 |
| eClass 9.0 | 27-14-11-34 | eClass 9.1 | 27-14-11-34 |

**Notes**

|       |  |
|-------|--|
| Notes | <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Colours: SW = black; GN/YL = green/yellow; GY = grey</li> <li>• Additional colours on request</li> <li>• WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V</li> </ul> |
|-------|--|

**Approvals**

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Data sheet****OMNIMATE Power - series WGK  
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**Technical data****Downloads**

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|   |   |
|---|---|
| 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>  |

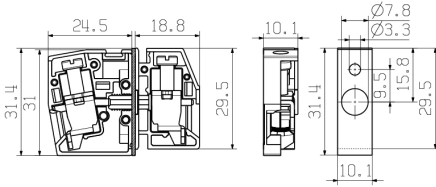
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**Drawings**

**Dimensional drawing**



WGK 10...

**Graph**

