

OMNIMATE Power - series WGK WGK 25/Z BK 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 25/Z BK BX |
| Order No. | 2444680000 |
| Version | OMNIMATE Power - series WGK, Feedthrough terminal, Rated cross-section: 25 mm ² , Wemid (PA) |
| GTIN (EAN) | 4050118480320 |
| Qty. | 50 pc(s). |
| Product data | IEC: 690 V / 101 A / 6 - 35 mm ² UL: 600 V / 100 A / AWG 10 - AWG 3 |
| Packaging | Box |

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Technical data
Dimensions and weights

Net weight 64.46 g

System parameters

| | | | |
|----------------------------|-----------------------------|--|------------------|
| Product family | OMNIMATE Power - series WGK | Wire connection method | Screw connection |
| Conductor outlet direction | 180° | Fitted by customer | Yes |
| Screwdriver blade | 1.2 x 6.5 | Tightening torque, min. | 4 Nm |
| Tightening torque, max. | 4.5 Nm | Clamping screw | M 6 |
| Stripping length | 18 mm | Touch-safe protection acc. to DIN VDE 0470 | IP 20 |

Material data

| | | | |
|---------------------------------------|------------|---------------------------------------|--------|
| Insulating material | Wemid (PA) | Colour | Black |
| Colour chart (similar) | RAL 9011 | 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. | 4 mm ² | Clamping range, max. | 35 mm ² |
| Wire connection cross section AWG, min. | AWG 10 | Wire connection cross section AWG, max. | AWG 3 |
| Solid, min. H05(07) V-U | 6 mm ² | Solid, max. H05(07) V-U | 16 mm ² |
| Stranded, min. H07V-R | 10 mm ² | Stranded, max. H07V-R | 35 mm ² |
| Flexible, min. H05(07) V-K | 6 mm ² | Flexible, max. H05(07) V-K | 16 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min | | w. wire end ferrule, DIN 46228 pt 1, max. | 25 mm ² |
| | 4 mm ² | | |

Rated data acc. to IEC

| | | | |
|---|------------------------|--|-------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Tu=20°C) | 101 A |
| Rated current, max. no. of poles (Tu=20°C) | 101 A | Rated voltage for surge voltage class / pollution degree III/3 | 690 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) | 100 A | Rated current (use group C) | 100 A |
| Wire cross-section, AWG, min. | AWG 10 | Wire cross-section, AWG, max. | AWG 3 |

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) | 100 A | Rated current (use group C) | 100 A |
| Wire cross-section, AWG, min. | AWG 10 | Wire cross-section, AWG, max. | AWG 3 |
| 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 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGKV: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGK...VP: 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

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Technical data**Downloads**

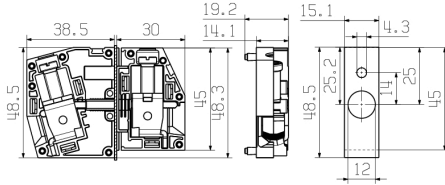
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Brochure/Catalogue | FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO_OMNIMATE EN |
| Engineering Data | STEP |

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Drawings

Dimensional drawing



WGK 25_Z...

Graph

