



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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OMNIMATE Power - series WGK WGKV 25 BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



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 | WGKV 25 BK BX |
| Order No. | 2444840000 |
| Version | OMNIMATE Power - series WGK, Feedthrough terminal, Rated cross-section: 25 mm ² , Wemid (PA) |
| GTIN (EAN) | 4050118493795 |
| Qty. | 25 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 66.48 g

System parameters

| | | | |
|----------------------------|-----------------------------|--|------------------|
| Product family | OMNIMATE Power - series WGK | Wire connection method | Screw connection |
| Conductor outlet direction | 90°/270° | Fitted by customer | No |
| 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 |

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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

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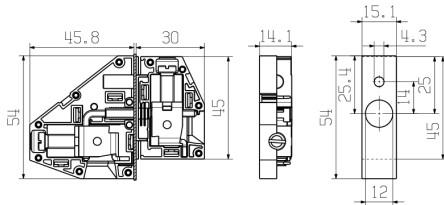
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Technical data**Downloads**

| | |
|---|---|
| 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**

WGKV 25...