

WGK 50/Z BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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

| | |
|--------------|---|
| Version | OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 50 mm ² , Wemid (PA), Direct mounting, Feed-through (bushing) |
| Order No. | 2427690000 |
| Type | WGK 50/Z BK BX |
| GTIN (EAN) | 4050118436563 |
| Qty. | 10 items |
| Product data | IEC: 690 V / 150 A / 16 - 50 mm ² UL: 600 V / 150 A / AWG 6 - AWG 1/0 |
| Packaging | Box |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

Dimensions and weights

| | | | |
|--------------------------|-------------|-----------------|-------------|
| Height | 55 mm | Height (inches) | 2.1654 inch |
| Height of lowest version | 55 mm | Width | 22.8 mm |
| Width (inches) | 0.8976 inch | Length | 22.8 mm |
| Length (inches) | 0.8976 inch | Net weight | 89.06 g |

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption

REACH SVHC No SVHC above 0.1 wt%

System parameters

| | | | |
|----------------------------|-----------------------------|--|------------------|
| Product family | OMNIMATE Power - series WGK | Wire connection method | Screw connection |
| Conductor outlet direction | 180° | Number of poles | 1 |
| Pin series quantity | 1 | Fitted by customer | Yes |
| Screwdriver blade | 1.2 x 6.5 | Tightening torque, min. | 4 Nm |
| Tightening torque, max. | 5.5 Nm | Clamping screw | M 6 |
| Stripping length | 24 mm | Touch-safe protection acc. to DIN VDE 0470 | IP 20 |
| Protection degree | IP20 | Type of connection 1 | Clamping yoke |
| Type of connection 2 | Clamping yoke | | |

Material data

| | | | |
|---------------------------------------|------------|---------------------------------------|----------|
| Insulating material | Wemid (PA) | Colour | black |
| Colour chart (similar) | RAL 9011 | Moisture Level (MSL) | |
| UL 94 flammability rating | V-0 | Contact material | Cu-alloy |
| Contact surface | tinned | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 70 °C | 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. | 10 mm ² |
| Clamping range, max. | 50 mm ² |
| Wire connection cross section AWG, min. | AWG 6 |
| Wire connection cross section AWG, max. | AWG 1/0 |
| Solid, min. H05(07) V-U | 16 mm ² |
| Solid, max. H05(07) V-U | 16 mm ² |
| Stranded, min. H07V-R | 16 mm ² |
| Stranded, max. H07V-R | 50 mm ² |
| Flexible, min. H05(07) V-K | 16 mm ² |
| Flexible, max. H05(07) V-K | 50 mm ² |

Creation date 27.02.2026 04:56:32 MEZ

Catalogue status / Drawings

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Technical data

w. plastic collar ferrule, DIN 46228 pt 4, 10 mm²
min.

w. plastic collar ferrule, DIN 46228 pt 4, 50 mm²
max.

w. wire end ferrule, DIN 46228 pt 1, 10 mm²
min.

w. wire end ferrule, DIN 46228 pt 1, 50 mm²
max.

| | | | |
|---------------------|--|------------------------------|--------------------------|
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 35 mm ² |
| | wire end ferrule | Stripping length | nominal 25 mm |
| | | Recommended wire-end ferrule | H35.0/25 |

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P)

Rated data acc. to IEC

| | | | |
|---|-------------|--|-------|
| tested acc. to standard | IEC 60664-1 | Rated current, min. number of poles (Tu=20°C) | 150 A |
| Rated current, max. number of poles (Tu=20°C) | 150 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 / CSA) | 600 V | Rated voltage (Use group C / CSA) | 600 V |
| Rated voltage (Use group D / CSA) | 300 V | Rated current (Use group B / CSA) | 150 A |
| Rated current (Use group C / CSA) | 150 A | Rated current (Use group D / CSA) | 10 A |
| Wire cross-section, AWG, min. | AWG 6 | Wire cross-section, AWG, max. | AWG 1/0 |

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|--|---------------------------------------|---------|
| Institute (cURus) | CURUS | Certificate No. (cURus) | E60693 |
| Rated voltage (Use group B / UL 1059) | 600 V | Rated voltage (Use group C / UL 1059) | 600 V |
| Rated voltage (Use group D / UL 1059) | 300 V | Rated current (Use group B / UL 1059) | 150 A |
| Rated current (Use group C / UL 1059) | 150 A | Rated current (Use group D / UL 1059) | 10 A |
| Wire cross-section, AWG, min. | AWG 6 | Wire cross-section, AWG, max. | AWG 1/0 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| | | | |
|-----------|----------|------------|-----------|
| Packaging | Box | VPE length | 210.00 mm |
| VPE width | 98.00 mm | VPE height | 62.00 mm |

Important note

- 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 variants on request
 - WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 6 mm = 690 V
 - Wire-end ferrules are mandatory for stranded wires with more than 19 strands.

Technical data

- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001283 | ETIM 9.0 | EC001283 |
| ETIM 10.0 | EC001283 | ECLASS 14.0 | 27-14-11-34 |
| ECLASS 15.0 | 27-14-11-34 | | |

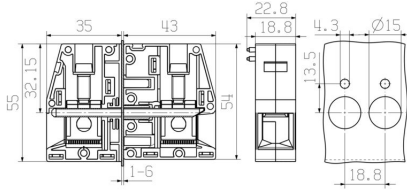
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Drawings

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Dimensional drawing



Graph

