

**WGK 50/Z BK IK 2EK SO BX**

**Weidmüller Interfaces GmbH & Co. KG**

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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**

Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 50 mm <sup>2</sup> , Wemid (PA)
Order No.	<a href="#">2427800000</a>
Type	WGK 50/Z BK IK 2EK SO BX
GTIN (EAN)	4050118436907
Qty.	10 Stück
Product data	IEC: 690 V / 150 A / 16 - 50 mm <sup>2</sup> UL: 600 V / 150 A / AWG 6 - AWG 1/0
Packaging	Box

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## Technische Daten

### Dimensions and weights

Net weight 108.8 g

### Temperatures

Operating temperature, min. -50 °C      Operating temperature, max. 120 °C

### 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.	8 Nm	Clamping screw	M 6
Stripping length	24 mm	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20		

### 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.	-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 <sup>2</sup>
Clamping range, max.	50 mm <sup>2</sup>
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 <sup>2</sup>
Solid, max. H05(07) V-U	16 mm <sup>2</sup>
Stranded, min. H07V-R	16 mm <sup>2</sup>
Stranded, max. H07V-R	50 mm <sup>2</sup>
Flexible, min. H05(07) V-K	16 mm <sup>2</sup>
Flexible, max. H05(07) V-K	50 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	10 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, max.	50 mm <sup>2</sup>

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	35 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal
		Recommended wire-end ferrule	<a href="#">H35.0/25</a>

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)

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### 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 current (Use group B / CSA)	150 A	Rated current (Use group C / CSA)	150 A
Wire cross-section, AWG, min.	AWG 6	Wire cross-section, AWG, max.	AWG 1/0

### Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)	150 A	Rated current (Use group C / UL 1059)	150 A
Wire cross-section, AWG, min.	AWG 6	Wire cross-section, AWG, max.	AWG 1/0

### Packing

Packaging	Box	VPE length	209 mm
VPE width	98 mm	VPE height	59 mm

### Classifications

ETIM 6.0	EC001283	ETIM 7.0	EC001283
ETIM 8.0	EC001283	ECLASS 9.0	27-14-11-34
ECLASS 9.1	27-14-11-34	ECLASS 10.0	27-14-11-34
ECLASS 11.0	27-14-11-34	ECLASS 12.0	27-14-11-34

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

### Approvals

ROHS	Conform
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Katalogstand 26.05.2023 / Technische Änderungen vorbehalten

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## Technische Daten

### Downloads

Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>

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## Zeichnungen

## Graph

