

WGK 25 BK 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: 25 mm ² , Wemid (PA)
Order No.	2444670000
Type	WGK 25 BK BX
GTIN (EAN)	4050118482331
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 64.36 g

System parameters

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw connection
Conductor outlet direction	180°	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
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.	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.	4 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	25 mm ²

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Technical data

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	4 mm ²
wire end ferrule	Cross-section for conductor connection	Stripping length	nominal 18 mm
		Recommended wire-end ferrule	H6,0/18
wire end ferrule	Cross-section for conductor connection	Type	fine-wired
		nominal	6 mm ²
wire end ferrule	Cross-section for conductor connection	Stripping length	nominal 18 mm
		Recommended wire-end ferrule	H6,0/18
wire end ferrule	Cross-section for conductor connection	Type	fine-wired
		nominal	10 mm ²
wire end ferrule	Cross-section for conductor connection	Stripping length	nominal 18 mm
		Recommended wire-end ferrule	H10,0/18
wire end ferrule	Cross-section for conductor connection	Type	fine-wired
		nominal	16 mm ²
wire end ferrule	Cross-section for conductor connection	Stripping length	nominal 18 mm
		Recommended wire-end ferrule	H16,0/18

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)	101 A
Rated current, max. number 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 / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated current (Use group B / CSA)	100 A	Rated current (Use group C / CSA)	100 A
Wire cross-section, AWG, min.	AWG 10	Wire cross-section, AWG, max.	AWG 3

Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E60693
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)	100 A	Rated current (Use group C / UL 1059)	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.		

Packing

Packaging	Box	VPE length	415 mm
VPE width	165 mm	VPE height	50 mm

Creation date September 17, 2022 10:41:18 PM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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Technical data

Classifications

ETIM 6.0	EC001283	ETIM 7.0	www.weidmuller.com 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 - 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
- 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

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	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

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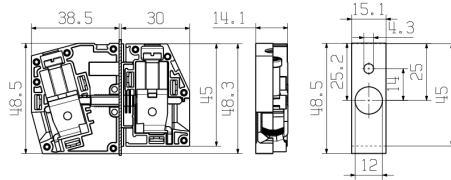
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Drawings

Dimensional drawing



WGK 25...

Derating curve

