WGK 50/Z IK 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 mm², Wemid (PA)
Order No.	2427710000
Type	WGK 50/Z IK BX
GTIN (EAN)	4050118436808
Qty.	50 pc(s).
Product data	IEC: 690 V / 150 A / 16 - 50 mm² UL: 600 V / 150 A / AWG 6 - AWG 1/0
Packaging	Box

Creation date March 26, 2021 11:13:35 PM CET

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Technical data

Dimensions and weights

Net weight	104 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.	5.5 Nm	Clamping screw	M 6
Stripping length	24 mm	Touch-safe protection acc. to DIN VDE 0470	IP 20

Material data

Insulating material	Wemid (PA)	Colour	grey
Colour chart (similar)	RAL 7035	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 mm²		
Clamping range, max.	50 mm²		
Wire connection cross section AWG, min.	AWG 6		
Wire connection cross section AWG, max.	AWG 1/0		
Solid, min. H05(07) V-U	16 mm²		
Solid, max. H05(07) V-U	16 mm²		
Stranded, min. H07V-R	16 mm²		
Stranded, max. H07V-R	50 mm²		
Flexible, min. H05(07) V-K	16 mm²		
Flexible, max. H05(07) V-K	50 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	10 mm²		
w. wire end ferrule, DIN 46228 pt 1, max.	50 mm²		
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	35 mm²
	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, IEC 61984	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		

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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

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)	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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	495 mm
VPE width	355 mm	VPE height	182 mm

Classifications

ETIM 6.0	EC001283	ETIM 7.0	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

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 colours 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

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer

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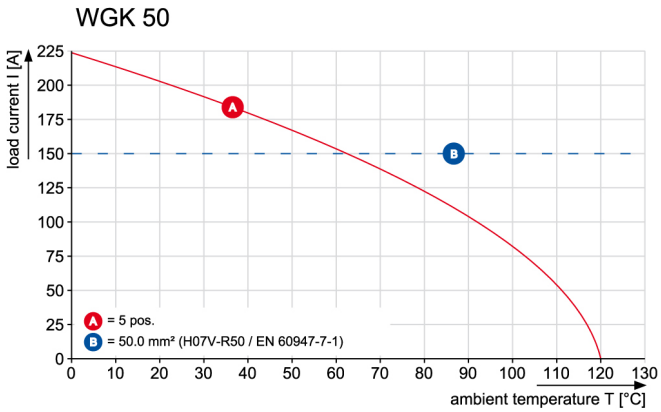
Drawings

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