

WGKV 16/Z GY 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: 16 mm ² , Wemid (PA)
Order No.	2440730000
Type	WGKV 16/Z GY BX
GTIN (EAN)	4050118468205
Qty.	50 pc(s).
Product data	IEC: 500 V / 76 A / 0.5 - 25 mm ² UL: 600 V / 85 A / AWG 20 - AWG 4
Packaging	Box

Creation date March 26, 2021 11:49:34 PM CET

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Technical data

Dimensions and weights

Net weight 33.68 g

System parameters

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw connection
Conductor outlet direction	90°/270°	Fitted by customer	Yes
Screwdriver blade	1.0 x 5.5	Tightening torque, min.	2 Nm
Tightening torque, max.	2.3 Nm	Clamping screw	M 5
Stripping length	16 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.	0.5 mm ²
Clamping range, max.	25 mm ²
Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 4
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	16 mm ²
Stranded, min. H07V-R	10 mm ²
Stranded, max. H07V-R	25 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	16 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²

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Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	4 mm ²
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H4.0/15
Cross-section for conductor connection	Cross-section for conductor connection	Type	fine-wired
		nominal	6 mm ²
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H6.0/15
Cross-section for conductor connection	Cross-section for conductor connection	Type	fine-wired
		nominal	10 mm ²
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H10.0/15
Cross-section for conductor connection	Cross-section for conductor connection	Type	fine-wired
		nominal	16 mm ²
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H16.0/15

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)	76 A
Rated current, max. number of poles (Tu=20°C)	76 A	Rated voltage for surge voltage class / pollution degree III/3	500 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)	85 A	Rated current (Use group C / CSA)	85 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 4

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)	85 A	Rated current (Use group C / UL 1059)	85 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 4
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	320 mm
VPE width	170 mm	VPE height	45 mm

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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 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V
- 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	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	STEP

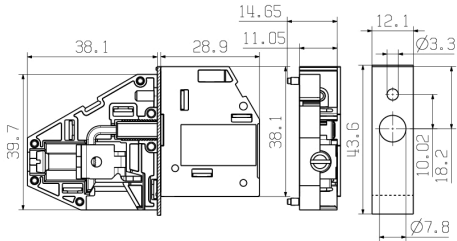
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Drawings

Dimensional drawing



WGKV 16/Z...

Derating curve

