

WGK 16 GN/YE 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), Direct mounting, Feed-through (bushing)
Order No.	2439600000
Type	WGK 16 GN/YE BX
GTIN (EAN)	4050118468045
Qty.	50 items
Product data	IEC: 500 V / 76 A / 0.5 - 25 mm ² UL: 600 V / 85 A / AWG 20 - AWG 4
Packaging	Box

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Technical data

Approvals

ROHS	Conform
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Dimensions and weights

Height	40.4 mm	Height (inches)	1.5905 inch
Height of lowest version	40.4 mm	Width	12 mm
Width (inches)	0.4724 inch	Length	12 mm
Length (inches)	0.4724 inch	Net weight	29.71 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	No
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
Protection degree	IP20	Type of connection 1	Clamping yoke
Type of connection 2	Clamping yoke		

Material data

Insulating material	Wemid (PA)	Colour	Green/yellow
Colour chart (similar)	Not specified	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.	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. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 16 mm ² max.	

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w. wire end ferrule, DIN 46228 pt 1, min. 0.5 mm²

w. wire end ferrule, DIN 46228 pt 1, max. 16 mm²

Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm ²	
wire end ferrule	wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	H4.0/15	
		Recommended wire-end ferrule	H6.0/15	
Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	6 mm ²	
wire end ferrule	wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	H6.0/15	
		Recommended wire-end ferrule	H10.0/15	
Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	10 mm ²	
wire end ferrule	wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	H10.0/15	
		Recommended wire-end ferrule	H16.0/15	
Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	16 mm ²	
wire end ferrule	wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	H16.0/15	
		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	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 voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	85 A
Rated current (Use group C / CSA)	85 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 4

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 voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	85 A
Rated current (Use group C / UL 1059)	85 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 4

Packing

Packaging	Box	VPE length	391.00 mm
VPE width	140.00 mm	VPE height	47.00 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.

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Technical data

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



WGK 16...

Graph

