

WGK 50/Z GN/YE TXSC 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 mm ² , Wemid (PA), Direct mounting, Feed-through (bushing)
Order No.	2427770000
Type	WGK 50/Z GN/YE TXSC BX
GTIN (EAN)	4050118436846
Qty.	10 items
Product data	IEC: 690 V / 150 A / 16 - 50 mm ² UL: 600 V / 150 A / AWG 6 - AWG 1/0
Packaging	Box

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Technical data

Approvals

Approvals



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

Dimensions and weights

Height	55 mm	Height (inches)	2.1654 inch
Height of lowest version	55 mm	Width	22.8 mm
Width (inches)	0.8976 inch	Length	22.8 mm
Length (inches)	0.8976 inch	Net weight	89.23 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	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
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.	10 mm ²
Clamping range, max.	50 mm ²
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 ²
Solid, max. H05(07) V-U	16 mm ²
Stranded, min. H07V-R	16 mm ²
Stranded, max. H07V-R	50 mm ²
Flexible, min. H05(07) V-K	16 mm ²
Flexible, max. H05(07) V-K	50 mm ²

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w. plastic collar ferrule, DIN 46228 pt 4, 10 mm²
min.

w. plastic collar ferrule, DIN 46228 pt 4, 50 mm²
max.

w. wire end ferrule, DIN 46228 pt 1, 10 mm²
min.

w. wire end ferrule, DIN 46228 pt 1, 50 mm²
max.

Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	35 mm ²	
	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	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 voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	150 A
Rated current (Use group C / CSA)	150 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 6	Wire cross-section, AWG, max.	AWG 1/0

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
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)	150 A
Rated current (Use group C / UL 1059)	150 A	Rated current (Use group D / UL 1059)	10 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	210.00 mm
VPE width	102.00 mm	VPE height	61.00 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.
 - 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.

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- 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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Graph

