

## WGK 50/Z TXSC GY BX

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



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 <sup>2</sup> , Wemid (PA), Direct mounting, Feed-through (bushing)
Order No.	<a href="#">2427750000</a>
Type	WGK 50/Z TXSC GY BX
GTIN (EAN)	4050118436822
Qty.	10 items
Product data	IEC: 690 V / 150 A / 16 - 50 mm <sup>2</sup> 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	<a href="#">UL Website</a>
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	103.7 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, TX 20	Tightening torque, min.	2.5 Nm
Tightening torque, max.	5 Nm	Clamping screw	M 6x13.5
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	grey
Colour chart (similar)	RAL 7035	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 <sup>2</sup>
Clamping range, max.	50 mm <sup>2</sup>
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 <sup>2</sup>
Solid, max. H05(07) V-U	16 mm <sup>2</sup>
Stranded, min. H07V-R	16 mm <sup>2</sup>
Stranded, max. H07V-R	50 mm <sup>2</sup>
Flexible, min. H05(07) V-K	16 mm <sup>2</sup>
Flexible, max. H05(07) V-K	50 mm <sup>2</sup>

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w. plastic collar ferrule, DIN 46228 pt 4, 10 mm<sup>2</sup>  
min.

w. plastic collar ferrule, DIN 46228 pt 4, 50 mm<sup>2</sup>  
max.

w. wire end ferrule, DIN 46228 pt 1, 10 mm<sup>2</sup>  
min.

w. wire end ferrule, DIN 46228 pt 1, 50 mm<sup>2</sup>  
max.

Clampable conductor	Cross-section for conductor connection	Type	fine-wired		
		nominal	35 mm <sup>2</sup>		
	wire end ferrule	Stripping length	nominal	25 mm	
		Recommended wire-end ferrule	<a href="#">H35.0/25</a>		

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	200.00 mm
VPE width	93.00 mm	VPE height	55.00 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**

