

WGK 50/Z BK 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.	2427790000
Type	WGK 50/Z BK TXSC BX
GTIN (EAN)	4050118436938
Qty.	10 pc(s).
Product data	IEC: 690 V / 150 A / 16 - 50 mm ² UL: 600 V / 150 A / AWG 6 - AWG 1/0
Packaging	Box

Creation date July 11, 2025 9:36:10 AM CEST

Catalogue status 04.07.2025 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Height	55 mm	Height (inches)	2.165 inch
Height of lowest version	55 mm	Width	22.8 mm
Width (inches)	0.898 inch	Length	22.8 mm
Length (inches)	0.898 inch	Net weight	89.32 g

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	black
Colour chart (similar)	RAL 9011	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 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. 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.	10 mm²		
w. wire end ferrule, DIN 46228 pt 1, 50 mm² 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)

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Technical data

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)		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 mm
VPE width	101 mm	VPE height	61 mm

Classifications

ETIM 6.0	EC001283	ETIM 7.0	EC001283
ETIM 8.0	EC001283	ETIM 9.0	EC001283
ETIM 10.0	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	ECLASS 12.0	27-14-11-34
ECLASS 13.0	27-14-11-34	ECLASS 14.0	27-14-11-34
ECLASS 15.0	27-14-11-34		

Approvals

Approvals	
Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

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www.weidmueller.com**Technical data****Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

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. • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months
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Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN

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Drawings

Graph

