

WGK 50 VP TXSC GN/YE BX SO

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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 ² , Wemid (PA)
Order No.	2984660000
Type	WGK 50 VP TXSC GN/YE BX SO
GTIN (EAN)	4099986845985
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

ROHS	Conform
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Dimensions and weights

Net weight	61 g
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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	Cable lug: ring cable / spade lug
Conductor outlet direction	180°	Fitted by customer	No
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		

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
w. wire end ferrule, DIN 46228 pt 1, min.	10 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	50 mm ²
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

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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)	150 A	Rated current (Use group C / CSA)	150 A
Wire cross-section, AWG, min.	AWG 6	Wire cross-section, AWG, max.	AWG 1/0

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 current (Use group B / UL 1059)	150 A	Rated current (Use group C / UL 1059)	150 A
Wire cross-section, AWG, min.	AWG 6	Wire cross-section, AWG, max.	AWG 1/0

Packing

Packaging	Box	VPE length	0.00
VPE width	0.00	VPE height	0.00

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
 - 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

