

**OMNIMATE Power - series WGK
VWGK 6 BK BX**

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Product image

The V versions of the WGK feed-through terminals with an insulated housing and clamping yoke connections on the external side, and a solder connection on the internal side for use in encapsulated devices (e.g. EMC filters).

General ordering data

Type	VWGK 6 BK BX
Order No.	2484810000
Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 6 mm², Wemid (PA), Direct mounting, Feed-through (bushing)
GTIN (EAN)	4050118520484
Qty.	50 pc(s).
Product data	IEC: 500 V / 41 A / 0.5 - 10 mm² UL: 300 V / 50 A / AWG 22 - AWG 10
Packaging	Box

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Technical data

Dimensions and weights

Length	15.5 mm	Length (inches)	0.61 inch
Width	10 mm	Width (inches)	0.394 inch
Height	31.5 mm	Height (inches)	1.24 inch
Height of lowest version	31.5 mm	Net weight	7.1 g

System parameters

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw / solder connection
Conductor outlet direction	180°	Fitted by customer	No
Screwdriver blade	0.8 x 4.0	Tightening torque, min.	0.8 Nm
Tightening torque, max.	1.8 Nm	Clamping screw	M 3.5
Stripping length	13 mm	Touch-safe protection acc. to DIN VDE 0470	IP 20

Material data

Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	UL 94 flammability rating	V-0
Contact material	E-Cu	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	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.	10 mm ²			
Wire connection cross section AWG, min.	AWG 22			
Wire connection cross section AWG, max.	AWG 10			
Solid, min. H05(07) V-U	0.5 mm ²			
Solid, max. H05(07) V-U	10 mm ²			
Stranded, max. H07V-R	6 mm ²			
Flexible, min. H05(07) V-K	0.5 mm ²			
Flexible, max. H05(07) V-K	6 mm ²			
w. wire end ferrule, DIN 46228 pt 1, min	0.5 mm ²			
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm ²			
Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm ²	
	AEH	Stripping length	nominal	12 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm ²	
	AEH	Stripping length	nominal	12 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	6 mm ²	
	AEH	Stripping length	nominal	12 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1.5 mm ²	
	AEH	Stripping length	nominal	12 mm
Max. clamping range	10 mm ²			

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Technical data

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	41 A
Rated current, max. no. of poles (Tu=20°C)	41 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)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	50 A
Rated current (Use group C / CSA)	50 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 10

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	50 A
Rated current (Use group C / UL 1059)	50 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 10

Packing

Packaging	Box	VPE length	0 m
VPE width	0 m	VPE height	0 m

Classifications

ETIM 6.0	EC001283	eClass 6.2	27-14-11-34
eClass 9.0	27-14-11-34	eClass 9.1	27-14-11-34

Notes

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 colours on request • VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V
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Approvals

ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
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Drawings

Dimensional drawing

