VWGK 6 BK BX

Weidmüller Interface GmbH & Co. KG

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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

Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 6 mm², Wemid (PA), Direct mounting, Feed-through (bushing)
Order No.	2484810000
Type	VWGK 6 BK BX
GTIN (EAN)	4050118520484
Qty.	50 items
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

Approvals

ROHS	Conform

Dimensions and weights

Height	31.5 mm	Height (inches)	1.2402 inch
Height of lowest version	31.5 mm	Width	10 mm
Width (inches)	0.3937 inch	Length	10.7 mm
Length (inches)	0.4213 inch	Net weight	6.25 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 / solder connection
Conductor outlet direction	180°	Number of poles	1
Pin series quantity	1	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
Protection degree	IP20	Type of connection 1	Clamping yoke
Type of connection 2	Solder connection		

Material data

Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	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.	0.5 mm²
Clamping range, max.	10 mm²
Wire connection cross section AWG, min.	AWG 22
Wire connection cross section AWG, max.	AWG 10
Solid, min. H05(07) V-U	0.5 mm²
Solid, max. H05(07) V-U	10 mm²
Stranded, min. H07V-R	0.5 mm²
Stranded, max. H07V-R	6 mm²
Flexible, min. H05(07) V-K	0.5 mm²
Flexible, max. H05(07) V-K	6 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	6 mm²

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w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm²			
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm²			
Clampable conductor	Cross-section for conductor connection		Type	fine-wired
			nominal	2.5 mm²
	wire end ferrule		Stripping length	nominal	12 mm
			Recommended wire-end ferrule	H2,5/12
	Cross-section for conductor connection		Type	fine-wired
			nominal	4 mm²
	wire end ferrule		Stripping length	nominal	12 mm
			Recommended wire-end ferrule	H4,0/12
	Cross-section for conductor connection		Type	fine-wired
			nominal	6 mm²
	wire end ferrule		Stripping length	nominal	12 mm
			Recommended wire-end ferrule	H6,0/12
	Cross-section for conductor connection		Type	fine-wired
			nominal	1.5 mm²
	wire end ferrule		Stripping length	nominal	12 mm
			Recommended wire-end ferrule	H1,5/12
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)	41 A
Rated current, max. number 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	124.00 mm
VPE width	117.00 mm	VPE height	50.00 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.

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Technical data

- 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
- VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

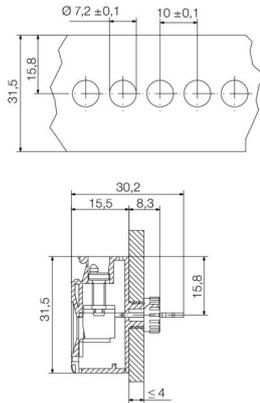|			
ETIM 8.0	EC001283	ETIM 9.0	EC001283
ETIM 10.0	EC001283	ECLASS 14.0	27-14-11-34
ECLASS 15.0	27-14-11-34		

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Drawings

Dimensional drawing

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Accessories

Accessories

Integrate, expand and customise: the perfect supplement to every application. Universal system accessories enable easy adaptation of the interfaces to fulfil specific requirements for the relevant application.

General ordering data

Type	DP VWGK 6 BK BX	Version	
Order No.	1250630000	OMNIMATE Power - series WGK, Feed-through terminal	
GTIN (EAN)	4050118041712		
Qty.	50 ST		
Type	DP VWGK 6 GY BX	Version	
Order No.	1965750000	OMNIMATE Power - series WGK, Feed-through terminal	
GTIN (EAN)	4032248758999		
Qty.	50 ST		

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 0.8X4.0X100	Version	
Order No.	2749820000	Screwdriver, Blade width (B): 4 mm, Blade length: 100 mm, Blade	
GTIN (EAN)	4050118897029	thickness (A): 0.8 mm	
Qty.	1 ST		

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Blank

The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	DEK 5/5 MC NE WS	Version	
Order No.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN)	4008190397111	Weidmueller, white	
Qty.	1000 ST		
Type	DEK 5/6 MC NE WS	Version	
Order No.	1609820000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00	
GTIN (EAN)	4008190203436	Weidmueller, white	
Qty.	1000 ST		
Type	DEK 5/8 MC NE WS	Version	
Order No.	1856740000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00	
GTIN (EAN)	4032248400850	Weidmueller, white	
Qty.	800 ST		

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