

**OMNIMATE Power - series WGK
WGKV 25 BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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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

Type	WGKV 25 BK BX
Order No.	2444840000
Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 25 mm², Wemid (PA)
GTIN (EAN)	4050118493795
Qty.	25 pc(s).
Product data	IEC: 690 V / 101 A / 6 - 35 mm² UL: 600 V / 100 A / AWG 10 - AWG 3
Packaging	Box

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Technical data

Dimensions and weights

Net weight	66.48 g
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System parameters

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw connection
Conductor outlet direction	90°/270°	Fitted by customer	No
Screwdriver blade	1.2 x 6.5	Tightening torque, min.	4 Nm
Tightening torque, max.	4.5 Nm	Clamping screw	M 6
Stripping length	18 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.	4 mm ²		
Clamping range, max.	35 mm ²		
Wire connection cross section AWG, min.	AWG 10		
Wire connection cross section AWG, max.	AWG 3		
Solid, min. H05(07) V-U	6 mm ²		
Solid, max. H05(07) V-U	16 mm ²		
Stranded, min. H07V-R	10 mm ²		
Stranded, max. H07V-R	35 mm ²		
Flexible, min. H05(07) V-K	6 mm ²		
Flexible, max. H05(07) V-K	16 mm ²		
w. wire end ferrule, DIN 46228 pt 1, min	4 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	25 mm ²		
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	4 mm ²
	AEH	Stripping length	nominal 18 mm
	Cross-section for conductor connection	Type	fine-wired
		nominal	6 mm ²
	AEH	Stripping length	nominal 18 mm
	Cross-section for conductor connection	Type	fine-wired
		nominal	10 mm ²
	AEH	Stripping length	nominal 18 mm
	Cross-section for conductor connection	Type	fine-wired
		nominal	16 mm ²
	AEH	Stripping length	nominal 18 mm
Max. clamping range	35 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
($T_u=20^{\circ}\text{C}$)

101 A

Rated current, max. no. of poles
($T_u=20^{\circ}\text{C}$)

101 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 current (Use group B / CSA)

100 A

Rated current (Use group C / CSA)

100 A

Wire cross-section, AWG, min.

AWG 10

Wire cross-section, AWG, max.

AWG 3

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 current (Use group B / UL 1059)

100 A

Rated current (Use group C / UL 1059)

100 A

Wire cross-section, AWG, min.

AWG 10

Wire cross-section, AWG, max.

AWG 3

Reference to approval values

Specifications are
maximum values, details -
see approval certificate.

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

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Technical data

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
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGKV: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGK...VP: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V
- Wire-end ferrules are mandatory for stranded wires with more than 19 strands.

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of the Manufacturer](#)

Brochure/Catalogue

[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](#)

Engineering Data

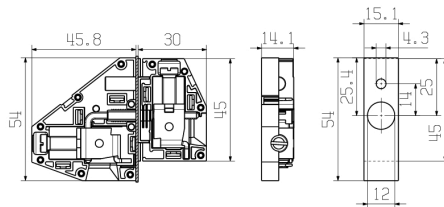
[STEP](#)

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Drawings

Dimensional drawing



WGKV 25...

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