

## OMNIMATE Power - series WGK WGK 50 VP GY BX

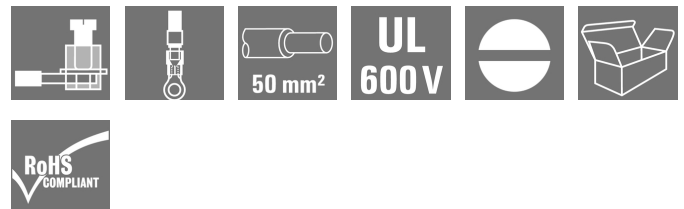
**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

### 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

Type	WGK 50 VP GY BX
Order No.	<a href="#">2428280000</a>
Version	OMNIMATE Power - series WGK, Feedthrough terminal, Rated cross-section: 50 mm <sup>2</sup> , Wemid (PA)
GTIN (EAN)	4050118437874
Qty.	10 pc(s).
Product data	IEC: 690 V / 150 A / 16 - 50 mm <sup>2</sup> UL: 600 V / 150 A / AWG 6 - AWG 1/0
Packaging	Box

**OMNIMATE Power - series WGK  
WGK 50 VP GY BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Technical data**
**Dimensions and weights**

Net weight 60.6 g

**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	Tightening torque, min.	4 Nm
Tightening torque, max.	8 Nm	Clamping screw	M 6
Stripping length	24 mm	Touch-safe protection acc. to DIN VDE 0470	IP 20

**Material data**

Insulating material	Wemid (PA)	Colour	Grey
Colour chart (similar)	RAL 7035	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.	10 mm <sup>2</sup>	Clamping range, max.	50 mm <sup>2</sup>
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 <sup>2</sup>	Solid, max. H05(07) V-U	50 mm <sup>2</sup>
Stranded, min. H07V-R	16 mm <sup>2</sup>	Stranded, max. H07V-R	50 mm <sup>2</sup>
Flexible, min. H05(07) V-K	16 mm <sup>2</sup>	Flexible, max. H05(07) V-K	50 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min		w. wire end ferrule, DIN 46228 pt 1, max.	50 mm <sup>2</sup>
	10 mm <sup>2</sup>		

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	150 A
Rated current, max. no. 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)	600 V	Rated voltage (Use group C)	600 V
Rated current (use group B)	150 A	Rated current (use group C)	150 A
Wire cross-section, AWG, min.	AWG 6	Wire cross-section, AWG, max.	AWG 1/0

**Data sheet**

**OMNIMATE Power - series WGK  
WGK 50 VP GY BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Technical data**

**Rated data acc. to UL 1059**

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (use group B)	600 V	Rated voltage (use group C)	600 V
Rated current (use group B)	150 A	Rated current (use group C)	150 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.		

**Packaging**

Packaging	Box	VPE length	210 mm
VPE width	95 mm	VPE height	55 mm

**Classifications**

ETIM 6.0	EC001283	eClass 6.2	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
- 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.

**Approvals**

Approvals



ROHS	Conform
------	---------

**Data sheet****OMNIMATE Power - series WGK  
WGK 50 VP GY BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Technical data****Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Brochure/Catalogue	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO_OMNIMATE EN</a>
Engineering Data	<a href="#">STEP</a>

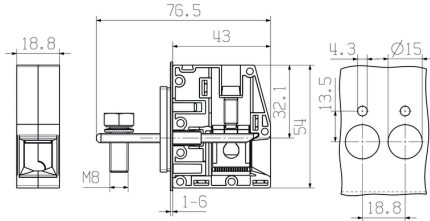
**Data sheet**

**OMNIMATE Power - series WGK  
WGK 50 VP GY BX**

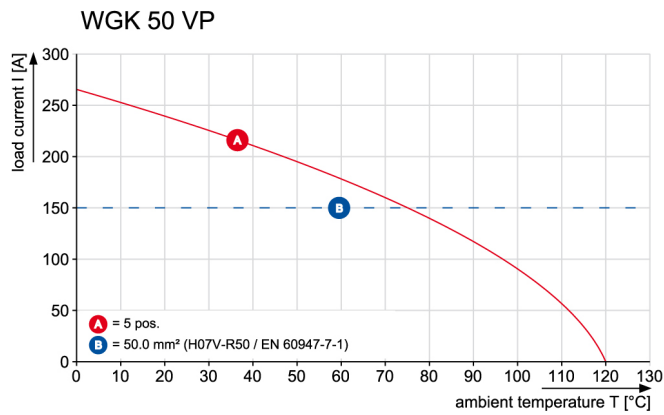
**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Drawings**

**Dimensional drawing**

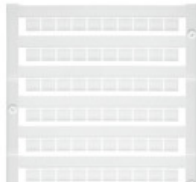


**Graph**



**OMNIMATE Power - series WGK  
WGK 50 VP GY BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Accessories**
**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	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/6 MC	<a href="#">1609820000</a>	Dekafix, Terminal marker,	4008190203436	1,000 pc(s).
NE WS		5 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, White		

**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	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MC	<a href="#">1856740000</a>	Dekafix, Terminal marker,	4032248400850	800 pc(s).
NE WS		5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White		

**Data sheet**

**OMNIMATE Power - series WGK  
WGK 50 VP GY BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Accessories**

**Slotted screwdriver**

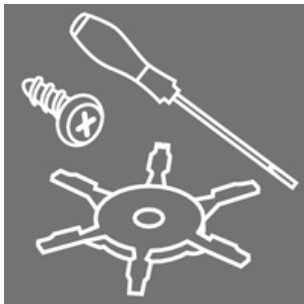
VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip



**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
SDIS 1.2X6.5X150	<a href="#">9008420000</a>	Screwdriver, Blade width (B): 6.5 mm, Blade length: 150 mm, Blade thickness (A): 1.2 mm	4032248056385	1 pc(s).

**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	Order No.	Version	GTIN (EAN)	Qty.	Product data
DP WGK 50	<a href="#">1937030000</a>	OMNIMATE Power - series WGK, Feedthrough terminal	4032248664795	10 pc(s).	UL:
DP WGK 50 BK BX	<a href="#">1250610000</a>	OMNIMATE Power - series WGK, Feedthrough terminal	4050118041736	10 pc(s).	UL:

**OMNIMATE Power - series WGK  
WGK 50 VP GY BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Accessories**

**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	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC	<a href="#">1609801044</a>	Dekafix, Terminal marker,	4008190397111	1,000 pc(s).
NE WS		5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, White		