

WGK 16 VP IK GY BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

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

| | |
|--------------|--|
| Version | OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 16 mm ² , Wemid (PA) |
| Order No. | 2440690000 |
| Type | WGK 16 VP IK GY BX |
| GTIN (EAN) | 4050118558234 |
| Qty. | 50 Stück |
| Product data | IEC: 500 V / 76 A / 0.5 - 25 mm ² UL: 600 V / 85 A / AWG 20 - AWG 4 |
| Packaging | Box |

Erstellungs-Datum May 25, 2023 2:22:47 PM CEST

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Technische Daten

Dimensions and weights

Net weight 19.85 g

Temperatures

Operating temperature, min. -50 °C Operating temperature, max. 120 °C

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 | 1.0 x 5.5 | Tightening torque, min. | 2 Nm |
| Tightening torque, max. | 2.3 Nm | Clamping screw | M 5 |
| Stripping length | 16 mm | Touch-safe protection acc. to DIN VDE 0470 | IP 20 |
| Protection degree | IP20 | | |

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. | -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 mm ² | Clamping range, max. | 25 mm ² |
| Wire connection cross section AWG, min. | AWG 20 | Wire connection cross section AWG, max. | AWG 4 |
| Solid, min. H05(07) V-U | 0.5 mm ² | Solid, max. H05(07) V-U | 16 mm ² |
| Stranded, min. H07V-R | 10 mm ² | Stranded, max. H07V-R | 25 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² | Flexible, max. H05(07) V-K | 16 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.5 mm ² | w. wire end ferrule, DIN 46228 pt 1, max. | 16 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) | 76 A |
| Rated current, max. number of poles (Tu=20°C) | 76 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 | | |

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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) | 85 A | Rated current (Use group C / CSA) | 85 A |
| Wire cross-section, AWG, min. | AWG 20 | Wire cross-section, AWG, max. | AWG 4 |

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) | 85 A | Rated current (Use group C / UL 1059) | 85 A |
| Wire cross-section, AWG, min. | AWG 20 | Wire cross-section, AWG, max. | AWG 4 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| | | | |
|-----------|--------|------------|--------|
| Packaging | Box | VPE length | 280 mm |
| VPE width | 125 mm | VPE height | 62 mm |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001283 | ETIM 7.0 | EC001283 |
| ETIM 8.0 | EC001283 | ECLASS 9.0 | 27-14-11-34 |
| ECLASS 9.1 | 27-14-11-34 | ECLASS 10.0 | 27-14-11-34 |
| ECLASS 11.0 | 27-14-11-34 | ECLASS 12.0 | 27-14-11-34 |

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 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V
 - Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

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Technische Daten

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |

Downloads

| | |
|-----------------------------|--|
| Product Change Notification | 20220114 Change color for feedthrough terminals - WGK GY 20220114 WGK GY - Farbänderung |
| Catalogues | Catalogues in PDF-format |

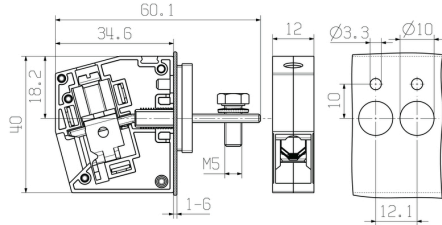
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Zeichnungen

Dimensional drawing



Derating curve

