

**WGKV 16/Z BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 <sup>2</sup> , Wemid (PA) |
| Order No.    | <a href="#">2440800000</a>                                                                               |
| Type         | WGKV 16/Z BK BX                                                                                          |
| GTIN (EAN)   | 4050118468342                                                                                            |
| Qty.         | 50 pc(s).                                                                                                |
| Product data | IEC: 500 V / 76 A / 0.5 - 25 mm <sup>2</sup><br>UL: 600 V / 85 A / AWG 20 - AWG 4                        |
| Packaging    | Box                                                                                                      |

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

|            |      |
|------------|------|
| Net weight | 34 g |
|------------|------|

**System parameters**

|                            |                                |                                            |                  |
|----------------------------|--------------------------------|--------------------------------------------|------------------|
| Product family             | OMNIMATE Power - series<br>WGK | Wire connection method                     | Screw connection |
| Conductor outlet direction | 90°/270°                       | Fitted by customer                         | Yes              |
| 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            |

**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.             | -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 <sup>2</sup> |
| Clamping range, max.                      | 25 mm <sup>2</sup>  |
| 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 <sup>2</sup> |
| Solid, max. H05(07) V-U                   | 16 mm <sup>2</sup>  |
| Stranded, min. H07V-R                     | 10 mm <sup>2</sup>  |
| Stranded, max. H07V-R                     | 25 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                | 0.5 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                | 16 mm <sup>2</sup>  |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, max. | 16 mm <sup>2</sup>  |

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## Technical data

|                     |                                        |                              |                          |       |
|---------------------|----------------------------------------|------------------------------|--------------------------|-------|
| Clampable conductor | Cross-section for conductor connection | Type                         | fine-wired               |       |
|                     |                                        | nominal                      | 4 mm <sup>2</sup>        |       |
|                     | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H4.0/15</a>  |       |
|                     | Cross-section for conductor connection | Type                         | fine-wired               |       |
|                     |                                        | nominal                      | 6 mm <sup>2</sup>        |       |
|                     | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H6.0/15</a>  |       |
|                     | Cross-section for conductor connection | Type                         | fine-wired               |       |
|                     |                                        | nominal                      | 10 mm <sup>2</sup>       |       |
|                     | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H10.0/15</a> |       |
|                     | Cross-section for conductor connection | Type                         | fine-wired               |       |
|                     |                                        | nominal                      | 16 mm <sup>2</sup>       |       |
|                     | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H16.0/15</a> |       |

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, IEC 61984 | 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                   |                                                                |       |

## 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 | 325 mm |
| VPE width | 165 mm | VPE height | 45 mm  |

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**Technical data****Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001283    | ETIM 7.0    | 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 |

**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 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 - 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

**Approvals**

## Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

**Downloads**

|                                             |                                                 |
|---------------------------------------------|-------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a> |
| Engineering Data                            | <a href="#">STEP</a>                            |

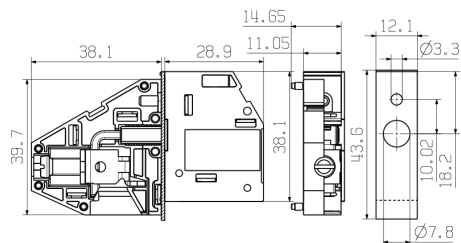
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## Drawings

### Dimensional drawing



WGKV 16/Z...

### Derating curve

