

**WGK 50 VP TXSC GN/YE BX SO****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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: 50 mm², Wemid (PA) |
| Order No.    | <a href="#">2984660000</a>                                                                  |
| Type         | WGK 50 VP TXSC GN/YE BX SO                                                                  |
| GTIN (EAN)   | 4099986845985                                                                               |
| Qty.         | 10 pc(s).                                                                                   |
| Product data | IEC: 690 V / 150 A / 16 - 50 mm²<br>UL: 600 V / 150 A / AWG 6 - AWG 1/0                     |
| Packaging    | Box                                                                                         |

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## Technical data

## Dimensions and weights

|            |      |
|------------|------|
| Net weight | 61 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, TX 20            | Tightening torque, min.                    | 2.5 Nm                            |
| Tightening torque, max.    | 5 Nm                        | Clamping screw                             | M 6x13.5                          |
| Stripping length           | 24 mm                       | Touch-safe protection acc. to DIN VDE 0470 | IP 20                             |
| Protection degree          | IP20                        |                                            |                                   |

## Material data

|                                       |               |                                       |              |
|---------------------------------------|---------------|---------------------------------------|--------------|
| Insulating material                   | Wemid (PA)    | Colour                                | Green/yellow |
| Colour chart (similar)                | Not specified | 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.                      | 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                   | 16 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. | 10 mm <sup>2</sup>                                                                                                                                                    | w. wire end ferrule, DIN 46228 pt 1, max. | 50 mm <sup>2</sup> |
| 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)                  | 150 A |
| Rated current, max. number 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 / CSA) | 600 V | Rated voltage (Use group C / CSA) | 600 V   |
| Rated current (Use group B / CSA) | 150 A | Rated current (Use group C / CSA) | 150 A   |
| Wire cross-section, AWG, min.     | AWG 6 | Wire cross-section, AWG, max.     | AWG 1/0 |

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## Rated data acc. to UL 1059

|                                       |       |                                       |         |
|---------------------------------------|-------|---------------------------------------|---------|
| 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) | 150 A | Rated current (Use group C / UL 1059) | 150 A   |
| Wire cross-section, AWG, min.         | AWG 6 | Wire cross-section, AWG, max.         | AWG 1/0 |

## Packing

|           |     |            |   |
|-----------|-----|------------|---|
| Packaging | Box | VPE length | 0 |
| VPE width | 0   | VPE height | 0 |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001283    | ETIM 7.0    | EC001283    |
| ETIM 8.0    | EC001283    | ETIM 9.0    | EC001283    |
| ETIM 10.0   | 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 |
| ECLASS 13.0 | 27-14-11-34 | ECLASS 14.0 | 27-14-11-34 |
| ECLASS 15.0 | 27-14-11-34 |             |             |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Important note

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes | <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Colours: SW = black; GN/YL = green/yellow; GY = grey</li> <li>• Additional variants on request</li> <li>• 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</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Approvals

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

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