

WAVESERIES WAS2 VMA V ac

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The WAS/WAZ2 VMA V ac: single-phase AC voltage monitoring components with analogue output and external power supply.

On the input side, these components provide voltages in the ranges 0 to 30/70/130/260 and 450 VAC for measuring.

A standardised DC current/voltage signal is available on the output side.

The devices use the true RMS method and are capable of measuring voltages in the frequency range from 40 to 400 Hz with an accuracy of 1 to 2%. The input/output and supply are securely isolated with 4 kV.

The 24 VDC supply voltage can be bridged using pluggable ZQV 2.5N jumpers on the module side.

General ordering data

| | |
|------------|--|
| Type | WAS2 VMA V ac |
| Order No. | 8581220000 |
| Version | WAVESERIES, Voltage monitoring, 1, 1, Screw connection |
| GTIN (EAN) | 4032248234622 |
| Qty. | 1 pc(s). |

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Technische Daten

Dimensions and weights

| | | | |
|------------|----------|--------|---------|
| Length | 92.4 mm | Width | 22.5 mm |
| Depth | 112.4 mm | Weight | 200 g |
| Net weight | 149.8 g | | |

Temperatures

| | | | |
|-----------------------|---------------|---------------------|-----------------|
| Operating temperature | 0 °C...+50 °C | Storage temperature | -20 °C...+70 °C |
|-----------------------|---------------|---------------------|-----------------|

Probability of failure

| | |
|------|-----------|
| MTTF | 371 Years |
|------|-----------|

Input

| | | | |
|---------------------------|--|------------------------------------|--|
| Input resistance, voltage | 30 kΩ / 70 kΩ / 130 kΩ / 250 kΩ / 450 kΩ | Input voltage (voltage mode input) | 0...30 / 0...70 / 0...130 / 0...250 / 0...450 V AC |
| Number of inputs | 1 | Max. voltage | 45 / 100 / 180 / 270 / 475 V AC (briefly) |
| Input frequency | 40...400 Hz sinus | | |

Output

| | | | |
|-------------------------|---|------------------------|-------------|
| Accuracy | 1,3 % (40...60 Hz) typ. 1 %; 2 % (70...400 Hz) typ. 1,5 % | Number of outputs | 1 |
| Offset current | max. 40 μA | Offset voltage | max. 0.02 V |
| Output current | 0(4)...20 mA | Output voltage, note | 0...10 V |
| Status indicator | Green LED | Step response time | < 300 ms |
| Temperature coefficient | ≤ 250 ppm/K | load impedance current | ≤ 600 Ω |
| load impedance voltage | ≥ 1 kΩ | | |

General data

| | | | |
|---------------------|--|--------------------|----------------------|
| Current consumption | 40...30...24 mA @ I _{OUT} = 20 mA | Default setting | 0...10 V / 0...20 mA |
| Galvanic isolation | 3-way isolator | Mounting rail | TS 35 |
| Supply voltage | 24 V DC ± 25 % | Type of connection | Screw connection |

Insulation coordination

| | | | |
|---|---|--------------------|------------------------------------|
| Clearance & creepage distances | Supply/output: 3 mm; input/output, supply/output: 5.5 mm | EMC standards | EN 61000-2-6, EN 61000-6, EN 61326 |
| Impulse withstand voltage | Supply/output: 4 kV; input/output, supply/input: 6 kV | Insulation voltage | 4 kV _{eff} / 5 s |
| Insulation voltage input or output/supply | Input/power supply: 4 kV _{eff} / 5 s; output/power supply: 2 kV _{eff} / 5 s | Pollution severity | 2 |
| Rated voltage | supply/output: 300 V; input/output, supply/output: 600 V | Standards | DIN EN 50178 |
| Surge voltage category | III | | |

Datenblatt

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Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC001438 | UNSPSC | 30-21-18-01 |
| eClass 5.1 | 27-21-09-01 | eClass 6.2 | 27-21-09-01 |
| eClass 7.1 | 27-37-18-01 | | |

Product information

Descriptive text accessories Cross-connector for power supplies and markers – refer to Accessories

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---------------------------|---|
| Package insert | instruction sheet.pdf |
| Declaration of Conformity | Declaration of Conformity.pdf |
| EPLAN | 8581220000.ema |
| 3D Modell | |

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Zeichnungen

Electric symbol

