

WAS1 CMA 1/5/10A AC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Output current loop fed AC current monitoring components WAS/WAZ1 CMA LP.

They can measure single-phase 50/60 Hz AC currents of up to 10 A using the Root Mean Square (RMS) method on the input side. They can also be switched between three ranges. No external power supply is used; the supply is only via the 4...20 mA current loop on the output side.

The input and output circuits are securely isolated with 4 kV.

The monitoring components come in a 17.5-mm-wide WAVEBOX housing. These devices can be used in many process automation applications because they are not dependent on an external power supply.

International approvals (such as ATEX Zone 2 and UL C1D2) also permit usage in explosion-risk zones.

General ordering data

| | |
|---------------------|--|
| Version | Current monitoring, Input current: 0...1 A AC/ 0...5 A AC/ 0...10 A AC, Output : 0-20 mA, 0-10 V |
| Order No. | 8523400000 |
| Type | WAS1 CMA 1/5/10A AC |
| GTIN (EAN) | 4032248151691 |
| Qty. | 1 pc(s). |
| Delivery status | This article will no longer be available in the future. |
| Available until | 2017-09-15 |
| Alternative product | 2044850000 |

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Technical data

Dimensions and weights

| | | | |
|--------|---------|-----------------|------------|
| Depth | 92.4 mm | Depth (inches) | 3.638 inch |
| Width | 22.5 mm | Width (inches) | 0.886 inch |
| Length | 72 mm | Length (inches) | 2.835 inch |
| Weight | 150 g | Net weight | 76.9 g |

Temperatures

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

Probability of failure

| | |
|------|-----------|
| MTTF | 533 Jahre |
|------|-----------|

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Input

| | | | |
|------------------|--|-----------------|-----------|
| Input current | 0...1 A AC/ 0...5 A AC/ 0...10 A AC | Input frequency | 50...60Hz |
| Number of inputs | 1 | | |

Output

| | | | |
|------------------------|--------------|---------------------|---|
| Load impedance current | ≤ 600 Ω | Number of outputs | 1 |
| Offset current | max. 100 μA | Offset voltage | max. 0.05 V |
| Output current | 0(4)...20 mA | Output signal limit | Approx. 13 V or 24 mA |
| Output voltage, note | | Status indicator | LED ON: OK; LED flashing: signal out of range; LED OFF: Error |
| | 0...10 V | | |
| load impedance voltage | ≥ 1 kΩ | | |

General data

| | | | |
|---------------------|----------------------------------|---|----------------|
| Accuracy | 0.5 % FSR | Configuration | DIP switch |
| Current consumption | 40 mA @ I _{OUT} = 20 mA | Current-carrying capacity of cross-connect. | ≤ 2 A |
| Galvanic isolation | 2-way isolator | Rail | TS 35 |
| Step response time | typ. 700 ms | Temperature coefficient | ≤ 200 ppm/K |
| Type of connection | Screw connection | Voltage supply | 24 V DC ± 10 % |

Insulation coordination

| | | | |
|--------------------------------|---------------------------|---------------------------|----------------------|
| Clearance & creepage distances | ≥ 5.5 mm | EMC standards | EN 55011, EN 61000-6 |
| Galvanic isolation | 2-way isolator | Impulse withstand voltage | 6 kV |
| Insulation voltage | 4 kV _{eff} / 5 s | Pollution severity | 2 |
| Rated voltage | 300 V | Surge voltage category | III |

Connection data

| | | | |
|----------------------------------|---------------------|----------------------|---------------------|
| Wire connection method | Screw connection | Type of connection | Screw connection |
| Clamping range, rated connection | 2.5 mm ² | Clamping range, min. | 0.5 mm ² |
| Clamping range, max. | 2.5 mm ² | | |

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Technical data**Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002653 | ETIM 7.0 | EC002653 |
| ETIM 8.0 | EC002653 | ECLASS 9.0 | 27-21-01-20 |
| ECLASS 9.1 | 27-21-01-20 | ECLASS 10.0 | 27-21-01-20 |
| ECLASS 11.0 | 27-21-01-20 | | |

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Technical data

Tender specification sheets

Long specification

Short specification

Monitoring component for AC currents up to 10A with standard signal output and electrical isolation

Current monitoring component in 22.5 mm width for recording 50/ 60 Hz AC currents
0...1 A / 0...5 A / 0...10 A. Standardised analogue current/ voltage signals are available on the output side. Input and output ranges can be adjusted via DIP switches.
The 24 VDC power is supplied over the output circuit.
The input and outputs are designed with 6 kV of electrical isolation.

Add-on housing for TS35 rail mounting
Dimensions: L/W/H 72/ 22.5/ 92.4 mm
Screw connection / Nominal cross-section 2.5 mm²
Protection degree: IP 20
Input 0...1 A / 0...5 A / 0...10 A AC switchable
50 / 60 Hz
Voltage of measuring circuit 250 V AC
Output 0(4)...20 mA / 0...10 V
Load resistance < 600 Ohm Strom
>1 kOhm / voltage
Transmission error < 0,5% v. E.
Temperature coefficient 200 ppm / K
Step response time typ. 700 ms
Auxiliary power 24 VDC +/- 10 % via output circuit
Ambient temperature range 0 °C...+50 °C

Secure isolation EN 50178, 2-way isolation up to 6 kV

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Important note

Product information This product will soon be replaced by a new product.
Please do not use with new systems. Please contact our technical support.

Approvals

Approvals



ROHS Conform
UL File Number Search E141197

Downloads

Approval/Certificate/Document of Conformity [Declaration of Conformity](#)
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Drawings

Electric symbol

