

## WAVESERIES

### WAS2 CMA 40/50/60A uc

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WAS/WAZ1/2 CMA: AC and AC/DC current monitoring components with analogue output and external power supply.

The WAS/WAZ1 CMA measures single-phase 50/60 Hz AC currents of up to 10 A using the transformer-based Root Mean Square (RMS) method.

The input can be selected in the ranges 1/5/10A using DIP switches.

The WAS/WAZ2 CMA AC/DC current monitoring components can be used to measure single-phase AC or DC currents of up to 60 A, depending on the particular version. DIP switches are used to select 2 or 3 ranges for the input sensitivity.

The True RMS hall sensor technique is used to measure the current. The wire is not connected but is instead routed directly through the device. This measurement method is not sensitive to continuous surge currents, current peaks or high start-up currents.

AC currents at frequencies up to 1 kHz can be measured with an accuracy of 1% (end value).

The WAS/WAZ1/2 CMA monitoring components provide standardised switchable DC current/voltage signals on the output side. The input and output circuits are securely isolated with 4 kV. The 24 VDC supply voltage is fed through the output (WAS/WAZ1 CMA) or the input (WAS/WAZ2 CMA).

The devices come in a 22.5 mm wide WAVEBOX housing. They feature either screw or tension-clamp wire connections.

The supply voltage can be bridged using pluggable ZQV 2,5N jumpers on the module side.

#### General ordering data

Type	WAS2 CMA 40/50/60A uc
Order No.	<a href="#">8513330000</a>
Version	WAVESERIES, Current monitoring, 0...40 A AC/DC / 0...50 A AC/DC / 0...60 A AC/DC, 1, 1, Screw connection
GTIN (EAN)	4032248151516
Qty.	1 pc(s).

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

Length	92.4 mm	Width	22.5 mm
Depth	112.4 mm	Weight	139 g
Net weight	139 g		

**Temperatures**

Operating temperature	0 °C...+50 °C	Storage temperature	-20 °C...+70 °C
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**Probability of failure**

MTTF	366 Years
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**Input**

Number of inputs	1	Sensor	Hall sensor (internal)
Voltage of measuring circuit	400 VAC, > 400 VAC depending on wire insulation	Max. current	Depends on wire cross-section
Input current	0...40 A AC/DC / 0...50 A AC/DC / 0...60 A AC/DC	Input frequency	0...2 kHz (True RMS)
Diameter of cable feed-through	8 mm		

**Output**

Accuracy	1 % FSR	Function	Cable entry/coil principle
Number of outputs	1	Offset current	max. 150 µA
Offset voltage	max. 0.08 V	Output current	0(4)...20 mA
Output signal limit	Approx. 13 V or 24 mA	Output voltage, note	0...10 V
Status indicator	LED ON: OK; FLASHING: signal out of range; LED OFF: Error	Step response time	typ. 700 ms
Temperature coefficient	≤ 650 ppm/K	load impedance current	≤ 600 Ω
load impedance voltage	≥ 1 kΩ		

**General data**

Current consumption	50 mA @ I <sub>OUT</sub> = 20 mA	Default setting	0...50 A, 4...20 mA
Galvanic isolation	2-way isolator	Mounting rail	TS 35
Supply voltage	24 V DC ± 10 %	Type of connection	Screw connection

**Insulation coordination**

Clearance & creepage distances	≥ 5.5 mm	EMC standards	EN 55011, EN 61000-6
Impulse withstand voltage	6 kV	Insulation voltage	4 kV <sub>eff</sub> / 5 s
Pollution severity	2	Rated voltage	300 V
Rated voltage	300 V	Standards	DIN EN 50178 (secure separation)
Surge voltage category	III		

**Classifications**

ETIM 3.0	EC001440	UNSPSC	30-21-18-01
eClass 5.1	27-21-09-02	eClass 6.2	27-21-09-02
eClass 7.1	27-37-18-02		

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**Data sheet****WAVESERIES  
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**Technical data****Product information**

Descriptive text accessories      Cross-connectors 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      [8513330000.ema](#)  
[3-D model](#)

**Data sheet**

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**Drawings**

**Electric symbol**

