

## WAVESERIES WAS2 CMR 1/5/10A ac

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WAS/WAZ2 CMR: AC current monitoring components with digital outputs and external power supply. The WAS/WAZ2 CMR 1/5/10 A ac is capable of detecting single-phase 50/60 Hz currents 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 CMR 20/40/60 A ac is capable of monitoring single-phase AC currents up to 60 A.

DIP switches are used to select one of three ranges for 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 with frequencies up to 1 kHz up can be monitored.

On the output side, there is a digital switching output with an adjustable switching threshold and a *hysteresis* (5/10% selectable). The input and output circuits are designed in isolation with 4-kV.

The 22.5 mm-wide current monitoring components are available with either screw or tension-clamp for the wire connection. The 24 VDC supply voltage can be cross-connected using ZQV 2,5N jumpers.

### General ordering data

Type	WAS2 CMR 1/5/10A ac
Order No.	<a href="#">8516560000</a>
Version	WAVESERIES, Current monitoring, 0...1 A AC/ 0...5 A AC/ 0...10 A AC, 1, 1, Screw connection
GTIN (EAN)	4032248153572
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	150 g
Net weight	116.9 g		

### Temperatures

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

MTTF	787 Years
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### Input

Number of inputs	1	Sensor	Transforming (internally)
Voltage of measuring circuit	250 V AC	Max. current	100 A for 1s
Max. voltage	250 V AC	Input current	0...1 A AC/ 0...5 A AC/ 0...10 A AC
Input frequency	50...60 Hz	Diameter of cable feed-through	4 mm

### Output

Continuous current	3 A	Function	Open-circuit/closed-circuit principle
Hysteresis	5 % or 10 % of threshold value	Max. switching voltage, AC	250 V
Max. switching voltage, DC	60 V	Number of outputs	1
Status indicator	Green LED	Step response time	typ. 700 ms
Switching current	7 A	Switching thresholds	Adjustable 10...100% with front potentiometer
Switching voltage AC, min.	6 V	Switching voltage DC, min.	6 V
Temperature coefficient	≤ 800 ppm/K		

### General data

Current consumption	8.3 mA (relay not triggered)/ 24 mA (relay triggered)	Default setting	0...5 A / 10 % hysteresis / open-circuit principle
Galvanic isolation	3-way isolator	Mounting rail	TS 35
Supply voltage	24 V DC ± 10 %	Type of connection	Screw connection

### Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 55011, EN 61000-6
Impulse withstand voltage	4 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
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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Descriptive text accessories      Cross-connector for power supplies and markers – refer to Accessories

**Approvals**

Approvals



ROHS      Conform

**Downloads**

Package insert	<a href="#">instruction sheet.pdf</a>
Declaration of Conformity	<a href="#">Declaration of Conformity.pdf</a>
EPLAN	<a href="#">8516560000.ema</a>
<a href="#">3D Modell</a>	

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**Zeichnungen**

**Electric symbol**

