

# Current Monitoring

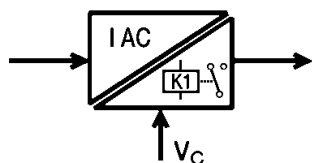
## WAVECONTROL

- Current ranges adjustable via DIP switch
- Cross-connectable voltage supply via cross-connectors
- Selectable hysteresis
- Selectable working and closed-circuit current principle

## Approvals:



### Block diagram



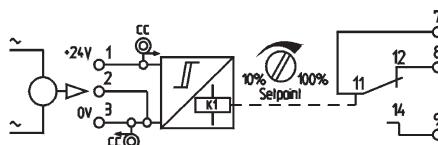
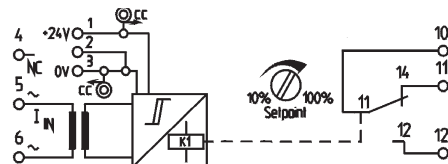
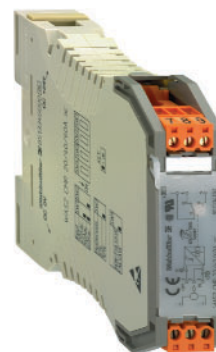
## WAS2 CMR WAZ2 CMR

1/5/10 A ac  
selectable with  
relay output



## WAS2 CMR WAZ2 CMR

20/40/60 A ac  
selectable with  
relay output



### Ordering data

Screw connection

Tension clamp connection

### Technical data\*

#### Input

Input current

Input frequency

Pass through diameter

Measuring principle

Connection type

Measurement circuit voltage

Max. measuring circuit

#### Output

Contact set

Min. switching voltage

Max. switching voltage

Continuous current AC

Continuous current DC

Max. switching current

Min. switching current

Status LED

Threshold

Hysteresis

Temperature coefficient

Response time (10...90%)

Working/closed-circuit current principle

### Type

WAS2 CMR 1/5/10A ac

WAZ2 CMR 1/5/10A ac

### Part No.

8516560000

8516570000

1A ac/5A ac/10A ac selectable (without additional adjustment)

50Hz/60Hz

transformer coupled

screw or tension clamp connection

250 VAC

100A for 1s

SPDT

6 VDC/6 VAC

60 VDC/250 VAC

3A

0.7A

7A

100mA

green LED

10%...100% adjustable via front potentiometer

approx. 5% or approx. 10% selectable from set threshold

≤ 800 ppm/K

typ. 700 ms

selectable

### Type

WAS2 CMR 20/40/60A ac

WAZ2 CMR 20/40/60A ac

### Part No.

8513340000

8526600000

20A ac/40A ac/60A ac selectable (without additional adjustment)

50Hz/60Hz

8 mm

Contact-free current monitoring using Hall sensor

Push-through connection

400 VAC, higher voltages dependent on wire insulation

dependent on wire cross-section

SPDT

6 VDC/6 VAC

60 VDC/250 VAC

3A

0.7A

7A

100mA

green LED

10%...100% adjustable via front potentiometer

approx. 5% or approx. 10% selectable from set threshold

≤ 250 ppm/K

typ. 700 ms

selectable

### Coordination of insulation acc. to DIN EN 50178, 04/98

Rated voltage

300V

Surge voltage

4kV

Overtoltage category

III

Contamination class

2

Clearance and creepage distance

mm (in.)

≥ 3 (.12)

Test voltage

4 kV<sub>eff</sub>

300V

4kV

III

2

≥ 3 (.12)

4 kV<sub>eff</sub>

### General

Supply

Supply voltage

21.6 VDC...24 VDC...26.4 VDC

Power consumption at rated voltage

8.3 mA (relay not switched)

24 mA (relay switched)

Reverse polarity protection

yes

Current carrying capacity of the cross-connection

≤ 2 A

Operating temperature range

0°C...+50°C

Storage/transport

-20°C...+70°C

Factory setting

Input range: 5A ac; hysteresis 10%, working current principle

22.5/92.4/112.4 (.89/3.64/4.43)

Weight

150 g

Approvals

CE, UL

Dimensions and accessories see

Page 356 + 366

21.6 VDC...24 VDC...26.4 VDC

23 mA (relay not switched)

47 mA (relay switched)

yes

≤ 2 A

0°C...+50°C

-20°C...+70°C

Input range :40A ac; hysteresis 10% working current principle

92.4/112.4/22.5

150 g

CE, UL

Page 356 + 366

\* T<sub>U</sub> = 23°C single module