#### 2867979

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Monitoring relay for monitoring 3-phase voltages of 350...650 V AC, undervoltage, window, phase sequence, phase failure, asymmetry, supply voltage can be selected via power module, 2 changeover contacts

## Product description

Increasingly higher demands are being placed on safety and system availability - across all sectors. Processes are becoming more and more complex, not only in mechanical engineering and the chemical industry, but also in plant and automation technology. Demands on power engineering are also increasing constantly.

Error-free and therefore cost-effective operation can only be achieved through continuous monitoring of important network and system parameters. Electronic monitoring relays in the EMD series are available for a wide range of monitoring tasks to avoid the consequences of errors or to keep them within limits.

The operating states are indicated using colored LEDs, errors that may occur can be sent to a control system via a floating contact or can shut down a part of the system. Some device versions are equipped with startup and response delays in order to briefly tolerate measured values outside the set monitoring range.

## Your advantages

- · Adjustable asymmetry
- · Adjustable via potentiometer on the front
- · Adjustable response delay
- · Variable supply voltage range

### Commercial data

Item number	2867979
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C440
Product key	CK4111
Catalog page	Page 252 (C-5-2019)
GTIN	4046356046985
Weight per piece (including packing)	271 g
Weight per piece (excluding packing)	242.6 g
Customs tariff number	85364900
Country of origin	AT

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## Technical data

Product properties

Voltage monitoring relay
100% operating factor
approx. 2x 10 <sup>7</sup> cycles
Basic insulation
Basic insulation
2
2x 10 <sup>5</sup> cycles at ohmic load, 1000 VA
3-phase
600 V
6 kV
230 V AC 500 V AC (see Power modules)
4.5 VA (1.5 W)
Measuring input
AC sine (48 Hz 63 Hz)
≤ 20 A
3 ~ 500 V
3 ~ 700 V
1 MΩ
50 Hz 60 Hz
< 0.1 %/K
0.1 s 10 s
-30 % 20 % (From U <sub>N</sub> )
-20 % 30 % (From U <sub>N</sub> )
350 V AC 600 V AC
400 V AC 650 V AC
Undervoltage
Window
Asymmetry
Phase sequence
Phase failure
± 5 % (of scale end value)



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Setting accuracy	≤ 5 % (of scale end value)
Repeat accuracy	≤ 2 %
Asymmetry	5 % 25% / OFF
Recovery time	500 ms

### Output data

Switching	
Contact switching type	2 floating changeover contacts
Maximum switching voltage	250 V AC (in acc. with IEC 60664-1)
Interrupting rating (ohmic load) max.	750 VA (3 A/250 V AC, module aligned, $\leq$ 5 mm spacing)
	1250 VA (5 A/250 V AC, module not aligned, ≥ 5 mm spacing)
Output fuse	5 A (fast-blow)

#### Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section rigid	0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.25 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section AWG	20 14

#### Dimensions

Width	45 mm
Height	90 mm
Depth	113 mm

### Material specifications

Color	green (RAL 6021)
Housing insulation material	Polyamide PA, self-extinguishing

### Environmental and real-life conditions

Degree of protection (Housing)	IP40 (Housing)
Degree of protection (Connection terminal blocks)	IP20 (Connection terminal blocks)
Ambient temperature (operation)	-25 °C 55 °C
	-25 °C 40 °C (corresponds to UL 508)
Ambient temperature (storage/transport)	-25 °C 70 °C
Climatic class	3K3 (in acc. with EN 60721)
Permissible humidity (operation)	15 % 85 %

### Approvals

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Certificate	CE-compliant

UL, USA/Canada

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Identification	UL/C-UL Listed UL 508
EMC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-3
Standards and regulations	
Standards/regulations	EN 50178
Mounting	
Mounting type	DIN rail mounting
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

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