2885249

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Monitoring relay for monitoring 3-phase voltages of 483...897 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

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

Commercial Data

Item number	2885249
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK4
Product Key	CK4111
Catalog Page	Page 252 (C-5-2019)
GTIN	4017918996482
Weight per Piece (including packing)	270.8 g
Weight per Piece (excluding packing)	270.8 g
Customs tariff number	85364900
Country of origin	AT

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Technical Data

Product properties Product type Voltage monitoring relay Operating mode 100% operating factor approx. 2x 10⁷ cycles Mechanical service life Insulation characteristics Basic insulation Insulation characteristics Basic insulation Ш Overvoltage category 2 Pollution degree

Electrical properties

Insulation

Insulation

Mains type 3-phase Rated insulation voltage 600 V Rated surge voltage 6 kV	Service life electrical	2x 10 ⁵ cycles at ohmic load, 1000 VA
	Mains type	3-phase
Rated surge voltage 6 kV	Rated insulation voltage	600 V
	Rated surge voltage	6 kV

Supply

Supply voltage range	230 V AC 500 V AC (see Power modules)
Nominal power consumption	4.5 VA (1.5 W)

Input data

Input name	Measuring input
Measured value	AC sine (48 Hz 63 Hz)
Protection	≤ 20 A
Nominal input voltage U _N	3 ~ 690 V
Maximum input voltage	3 ~ 950 V
Input resistance of voltage input	1 ΜΩ
Frequency range	50 Hz 60 Hz
Maximum temperature coefficient	< 0.1 %/K
Setting range for response delay	0.1 s 10 s
Min. setting range	-30 % 20 % (From U _N)
Max. setting range	-20 % 30 % (From U _N)
Min setting range of the voltage threshold value	483 V AC 828 V AC
Max. setting range of the voltage threshold value	552 V AC 897 V AC
Function	Undervoltage
	Window
	Asymmetry
	Phase sequence
	Phase failure
Basic accuracy	± 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 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, ≤ 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 ² 2.5 mm ²
Conductor cross section flexible	0.25 mm ² 2.5 mm ²
Conductor cross section AWG	20 14

Dimensions

Width	45 mm
Height	90 mm
Depth	113 mm

Material specifications

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

CE	
Certificate	CE-compliant
UL, USA/Canada	
Identification	UL/C-UL Listed UL 508

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EMC data

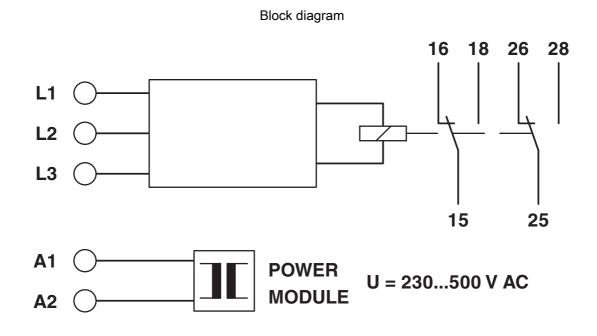
Low Voltage Directive	Conformance with Low Voltage Directive		
Noise immunity	EN 61000-6-2		
Electromagnetic compatibility	Conformance with EMC directive		
Noise emission	EN 61000-6-3		
Standards and regulations			
Standards/regulations	EN 50178		
Mounting			
Mounting type	DIN rail mounting		
Assembly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



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Drawings





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Approval ID: EAC Approval ID: TR_TS_D_00573_0 IMI EAC Approval ID: RU*C-DE.*08.B.00010 IMI EAC Approval ID: RU*C-DE.*08.B.00010 IMI EAC Approval ID: FILE E 172140 IMI CUL Listed Approval ID: FILE E 172140

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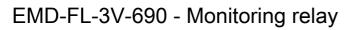
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Classifications

ECLASS

	ECLASS-11.0	27371801		
ETIM				
	ETIM 8.0	EC001438		
UNSPSC				
	UNSPSC 21.0	41113600		



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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

EMD-SL-PS45-230AC - Power module

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Power modules, pluggable, for EMD-FL-..., supply voltage: 195 V AC ... 264 V AC

EMD-SL-PS45-400AC - Power module

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Power modules, pluggable, for EMD-FL-..., supply voltage: 323...456 V AC

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EMD-SL-PS45-500AC - Power module

2885317

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Power modules, pluggable, for EMD-FL-..., supply voltage: 425...550 V AC

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