2866022

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Monitoring relay for monitoring 1-phase currents of 0 ... 10 A AC/DC, overcurrent/undercurrent or window, error memory, wide range power supply unit, 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 via potentiometer on the front
- · Separately adjustable startup and response delays

Commercial data

Item number	2866022
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK6632
Product key	DK6632
Catalog page	Page 250 (C-5-2019)
GTIN	4017918975005
Weight per piece (including packing)	166.5 g
Weight per piece (excluding packing)	165.81 g
Customs tariff number	85364900
Country of origin	AT

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Technical data

Product properties

Product type	Current monitoring relay
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles
Insulation characteristics	
Insulation characteristics Insulation	Basic insulation
	Basic insulation

Electrical properties

Service life electrical	2x 10 ⁵ cycles at ohmic load, 1000 VA
Maximum power dissipation for nominal condition	1 W
Mains type	1-phase
Rated insulation voltage	300 V
Rated surge voltage	4 kV
Supply	
Supply voltage range	24 V AC 240 V AC -15 % +10 %
	24 V DC 240 V DC -20 % +25 %
Nominal power consumption	4.5 VA (1.5 W)

Input data

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Input name	Measuring input
Measured value	DC, AC sine
Input current range	0 mA 100 mA (Connection terminal blocks: I1 and GND)
	0 A 1 A (Connection terminal blocks: I2 and GND)
	0 A 10 A (Connection terminal blocks: I3 and GND)
Overload capacity	800 mA (at I _N = 100 mA)
	3 A (at I _N = 1 A)
	12 A (at I _N = 10 A)
Input resistance current input	470 mΩ (at I _N = 100 mA)
	47 mΩ (at I_N = 1 A)
	5 mΩ (at I _N = 10 A)
Frequency range	48 Hz 400 Hz
Maximum temperature coefficient	< 0.1 %/K
Setting range for response delay	0.1 s 10 s
Setting range for starting delay	0 s 10 s
Min. setting range	5 % 95 % (from I _N)
Max. setting range	10 % 100 % (from I _N)
Function	Overcurrent
	Undercurrent

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	Window
	Error memory
Basic accuracy	± 5 % (of scale end value)
Setting accuracy	≤ 5 % (of scale end value)
Repeat accuracy	≤ 2 %
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, ≤ 5 mm spacing)
	1250 VA (5 A/250 V AC, module not aligned, \ge 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 mm² 2.5 mm²
Conductor cross section AWG	20 14

Dimensions

Width	22.5 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

Ambient 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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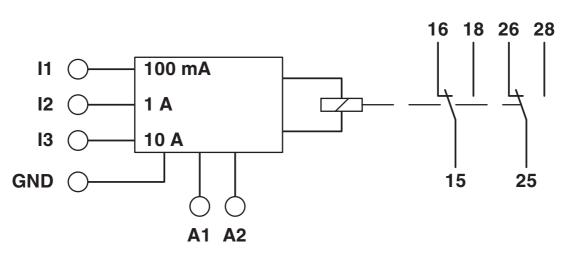


Certificate	CE-compliant
UL, USA/Canada	
Identification	UL/C-UL Listed UL 508
MC data	
Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Noise emission	
Standards/regulations	EN 61000-6-4
andards and regulations	
Standards/regulations	EN 50178
ounting	
Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

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Drawings



Block diagram

U = 24...240 V AC/DC

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Approvals

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ERC	EAC Approval ID: RU*C-DE.*08.B.00010
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<u>.</u>	CUL Listed Approval ID: FILE E 172140

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Classifications

ECLASS

	ECLASS-13.0	27371802	
ETIM			
	ETIM 9.0	EC001440	
UNSPSC			
	UNSPSC 21.0	41113600	

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		

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