

2903522

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Monitoring relay for monitoring single-phase currents of 0 ... 5 A AC or 0 ... 10 A AC, overcurrent/undercurrent or window, 1 changeover contact, with Push-in connection

Product description

Safety and system availability requirements are constantly on the increase – across all industries. Processes are becoming more and more complex, not only in machine building and the chemical industry but also in building technology. The demands placed on energy technology are also constantly on the rise.

It is only by continuously monitoring key network and system parameters that error-free and therefore cost-effective operation can be achieved. Electronic monitoring relays from the EMD series are available for a wide range of monitoring tasks so that the consequences of errors can be avoided or kept within limits.

The operating states are signaled via color LEDs and any errors that occur can be sent to a controller via a floating contact or can shut down a section of the system. All device versions are equipped with response delays so that measured values outside the set monitoring range can be briefly tolerated.

Commercial data

Item number	2903522
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C440
Product key	DK6482
GTIN	4046356747264
Weight per piece (including packing)	70.7 g
Weight per piece (excluding packing)	70.7 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	15x 10 ⁶ cycles
Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

hase
OV (Supply circuit)
OV (Output circuit)
O V (Measuring circuit)
V
))

Supply

Supply voltage	230 V AC ±15 %
Supply voltage range	195.5 V AC 264.5 V AC
Nominal power consumption	5 VA (0.8 W)

Input data

Input name	Measuring input
Measured value	AC sine (48 Hz 63 Hz)
Input current range	0 A 5 A
	0 A 10 A
	Configurable via rotary switches
Overload capacity	13 A AC
Input resistance current input	3 mΩ
Frequency range	48 Hz 63 Hz
Maximum temperature coefficient	≤ 0.05 %
Setting range for response delay	0.1 s 10 s
Min. setting range	5 % 95 % (from I _N)
Max. setting range	10 % 100 % (from I _N)
Function	Overcurrent
	Undercurrent
	Window
Basic accuracy	≤ 5 % (of the nominal value)
Setting accuracy	± 5 % (of the nominal value)
Repeat accuracy	≤ 2 %



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Output data

Switching

Contact switching type	1 floating changeover contact
Maximum switching voltage	250 V AC (in acc. with IEC 60664-1)
Interrupting rating (ohmic load) max.	1250 VA (5 A / 250 V AC)
Output fuse	5 A (fast-blow)

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
Conductor cross-section AWG	26 14

Signaling

Status display	LED (yellow)
Operating voltage display	Green LED
Error indication	Red LED

Dimensions

Width	17.5 mm
Height	89.5 mm
Depth	65.5 mm

Material specifications

Color	gray (RAL 7042)
Housing insulation material	Polyamide PA 6.6, 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
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		



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Identification	UL/C-UL Listed UL 508
EMC data	
LIVIO UALA	
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 61000-6-3
Standards and regulations	
Standards/regulations	DIN EN 60947-5-1
Mounting	
Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

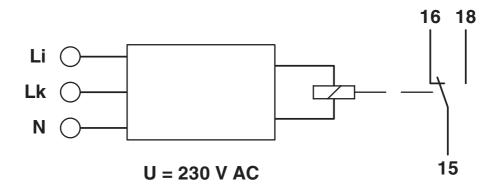
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Drawings

Block diagram





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Approvals

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EAC

Approval ID: RU*C-DE.*08.B.00010



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



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Classifications

ECLASS

	ECLASS-13.0	27371802		
	ECLASS-15.0	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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