

EMD-FL-C-10


Order No.: 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 PDTs



Commercial data	
EAN	 4 017918 975005
sales group	H224
Pack	1 Pcs.
Customs tariff	85364900
Gross weight in pieces	0.1688 KG
Net weight per piece	0.1687 KG
Catalog page information	Page 252 (C-7-2013)

Product notes

WEEE/RoHS-compliant since: 04/11/2006



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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.

Technical data

Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
	-25 °C ... 40 °C (corresponds to UL 508)
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Input data

Input current range	0 mA ... 100 mA AC/DC (Connection terminals: I1 and GND)
	0 A ... 1 A AC/DC (Connection terminals: I2 and GND)
	0 A ... 10 A AC/DC (Connection terminals: 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)
Maximum temperature coefficient	< 0.1 %/K
Function	Overcurrent, undercurrent, window, error memory
Min. setting range	5 % ... 95 % (From I_N)
Max. setting range	10 % ... 100 % (From I_N)
Setting range for response delay	0.1 s ... 10 s
Setting range for starting delay	0 s ... 10 s
Basic accuracy	± 5 % (of scale end value)
Setting accuracy	≤ 5 % (of scale end value)
Repeat accuracy	≤ 2 %
Recovery time	500 ms

Contact side

Contact type	2 floating PDT 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)
Power supply	
Supply voltage range	24 V AC ... 240 V AC -15 % ... +10 %
	24 V DC ... 240 V DC -20 % ... +25 %
General	
Mechanical service life	Approx. 2×10^7 cycles
Operating mode	100% operating factor
Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Surge voltage category	III, basic insulation (as per EN 50178)
Housing insulation material	Polyamide PA, self-extinguishing
Color	green
Rated insulation voltage	300 V (According to EN 50178)
Conformance	CE-compliant
UL, USA / Canada	UL/C-UL listed UL 508
Connection data	
Conductor cross section stranded min.	0.25 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Connection method	Screw connection

Certificates / Approvals



Certification

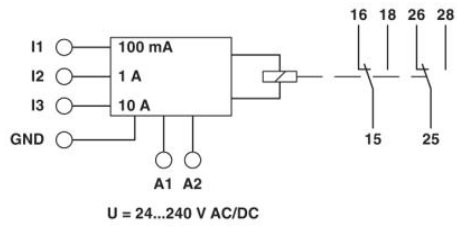
cULus Listed

Certifications applied for:

Certification Ex:

Drawings

Block diagram



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