#### PHOENIX CONTACT GmbH & Co. KG

# EMD-FL-C-10

Order No.: 2866022

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2866022

Electronic monitoring relay for single-phase currents, threshold value and delay can be set, with overcurrent and surge current monitoring, window function

#### Product notes

WEEE/RoHS-compliant since: 01/17/2007

#### http://

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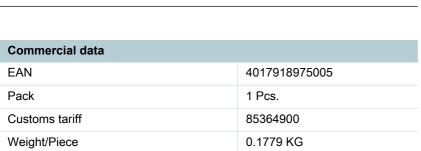
#### Product description

Catalog page information

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.

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catalog

Extract from the online



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	
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 <sub>N</sub> = 100 mA)
	$3 A (at I_N = 1 A)$
	12 A (at I <sub>N</sub> = 10 A)
Maximum temperature coefficient	< 0.1 %/K
Function	Overcurrent, undercurrent, window
Min. setting range	5 % 95 % (From I <sub>N</sub> )
Max. setting range	10 % 100 % (From I <sub>N</sub> )
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	$\leq$ 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, $\leq$ 5 mm spacing)
	1250 VA (5 A/250 V AC, module not aligned, $\geq$ 5 mm spacing)
Output fuse	5 A (fast-blow)
Power supply	
Range of supply voltages	24 V AC 240 V AC -15 % +10 %
	24 V DC 240 V DC -20 % +25 %
General data	
Width	22.5 mm
Height	113 mm
Length	90 mm

Approx. 2 x 10 <sup>7</sup> cycles
100% operating factor
-25 °C 55 °C
-25 °C 70 °C
Any
on TS 35 profile rail acc. to EN 60715
3
Ш
Polyamide PA, self-extinguishing
green
4 kV (basic insulation)
CE compliant
UL/C-UL listed UL 508

### **Connection data**

Conductor cross section stranded min.	0.25 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Type of connection	Screw connection

# Certificates / Approvals



Certification

CUL Listed, UL Listed

## Drawings

Block diagram

