

EMD-SL-3V-400

Order No.: 2866051

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Electronic monitoring relay, voltage monitoring in 3-phase networks within the range between the thresholds MIN and MAX with settable threshold values and adjustable response delay. Please order the power module at the same time!

Commercial data	
EAN	4017918952655
Pack	1 Pcs.
Customs tariff	85364900
Weight/Piece	0.1359 KG
Catalog page information	Page 555 (IF-2007)

Product notesWEEE/RoHS-compliant since:
09/03/2007

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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

Input data

Nominal input voltage U_N	3 ~ 400 V
Maximum temperature coefficient	< 0.1 %/K
Function	Window
Min. setting range	-30 % ... 20 % (From U_N)
Max. setting range	-20 % ... 30 % (From U_N)
Min setting range of the voltage threshold value	280 V AC ... 480 V AC
Max. setting range of the voltage threshold value	320 V AC ... 520 V AC
Setting range for response delay	0.2 s ... 10 s
Basic accuracy	± 5 % (of scale end value)
Setting accuracy	≤ 5 % (of scale end value)
Repeat accuracy	≤ 2 %
Voltage influence	≤ 0.5 %
Recovery time	500 ms

Contact side

Contact type	1 floating PDT
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

Range of supply voltages	24 V AC ... 230 V AC (see Power modules) 24 V DC (see Power modules)
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General data

Width	22.5 mm
Height	113 mm
Length	90 mm
Service life mechanical	Approx. 2×10^7 cycles
Operating mode	100% operating factor
Ambient temperature (operation)	-25 °C ... 55 °C

Ambient temperature (storage/transport)	-25 °C ... 70 °C
Mounting position	Any
Assembly instructions	on TS 35 profile rail acc. to EN 60715
Pollution degree	3
Surge voltage category	III
Housing insulation material	Polyamide PA, self-extinguishing
Color	green
Rated surge voltage	4 kV (basic insulation)
Conformity	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
Type of connection	Screw connection

Certificates / Approvals



Certification

CUL Listed, UL Listed

Additional products

Item	Designation	Description
General		
2866116	EMD-SL-PS-110AC	Power modules, pluggable, for EMD-SL-..., supply voltage: 88...121 V AC
2885731	EMD-SL-PS-120AC	Power modules, pluggable, for EMD-SL-..., supply voltage: 108 V AC ... 132 V AC
2866129	EMD-SL-PS-230AC	Power modules, pluggable, for EMD-SL-..., supply voltage: 195...264 V AC

2866103	EMD-SL-PS-24AC	Power modules, pluggable, for EMD-SL-..., supply voltage: 20.2...26.4 V AC
2885359	EMD-SL-PS-24DC	Power modules, pluggable, for EMD-SL-..., supply voltage: 20 V DC ... 30 V DC

Drawings

Block diagram

