Extract from the online catalog

EMD-SL-PH-400

Order No.: 2866077

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Monitoring relay for monitoring phase sequence, phase failure and asymmetry, 342…477 V AC, supply from measurement supply, 2 PDTs

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Commercial data	
GTIN (EAN)	4 017918 952679
sales group	H216
Pack	1 pcs.
Customs tariff	85364900
Catalog page information	Page 657 (IF-2009)

Product notes

WEEE/RoHS-compliant since: 04/03/2009

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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	400 V (3 N ~ 400/230 V)
Function	Phase sequence, phase failure, asymmetry
Min setting range of the voltage threshold value	342 V AC ... 477 V AC
Setting range for response delay	≤ 350 ms (fixed setting)
Setting range for starting delay	≤ 500 ms (fixed setting)
Asymmetry	Fixed, approx. 30%
Recovery time	< 100 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	(From the measured voltage)

General data

Width	22.5 mm
Height	90 mm
Depth	113 mm
Mechanical service life	Approx. 2 x 10^7 cycles
Operating mode	100% operating factor
Ambient temperature (operation)	-25 °C ... 55 °C
	-25 °C ... 40 °C (corresponds to UL 508)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Mounting position	Any
Assembly instructions	on TS 35 profile rail acc. to 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

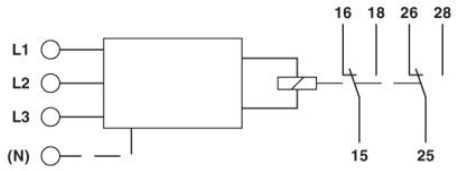
Conductor cross section stranded min.	0.25 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Type of connection	Screw connection

Certificates / Approvals

Certification — CUL Listed, UL Listed

Diagrams/Drawings

Block diagram



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