DATASHEET - EMR4-N500-2-B

Part no.

Catalog No.

EL-Nummer

(Norway)

Eaton Catalog No.



Liquid level monitoring relay, 2W, 220-240V50/60Hz, 250-5000hm

EMR4-N500-2-B

EMR4-N500-2-B

0004110398

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Delivery program

Product range	This item will continue to be available for a limited time only and is being replace by the following item: 184757, EMR6-N1000-A-1 EMR Measuring and monitoring relays
Product range	EMR Measuring and monitoring relays
Basic function	Level monitoring relays
	On-delay/off-delay: adjustable between 0.1 - 10 s
Monitoring of	Fill level of conductive liquids Mixture ratio of conductive liquids
adjustable sensitivity range	250 Ω - 500 kΩ
Contact sequence	$\begin{array}{c c} C & MAX & MIN \\ \hline \\ 1 & 1 \\ A1 \\ \hline \\ A1 \\ \hline \\ A2 \\ 16 \\ 18 \\ 26 \\ 28 \end{array}$
Supply voltage	220 - 240 V AC, 50/60 Hz
Width	mm 45

Level monitoring relays

Technical data

Technical data in sheet catalogue

Other technical data (sheet catalogue)

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	5
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.

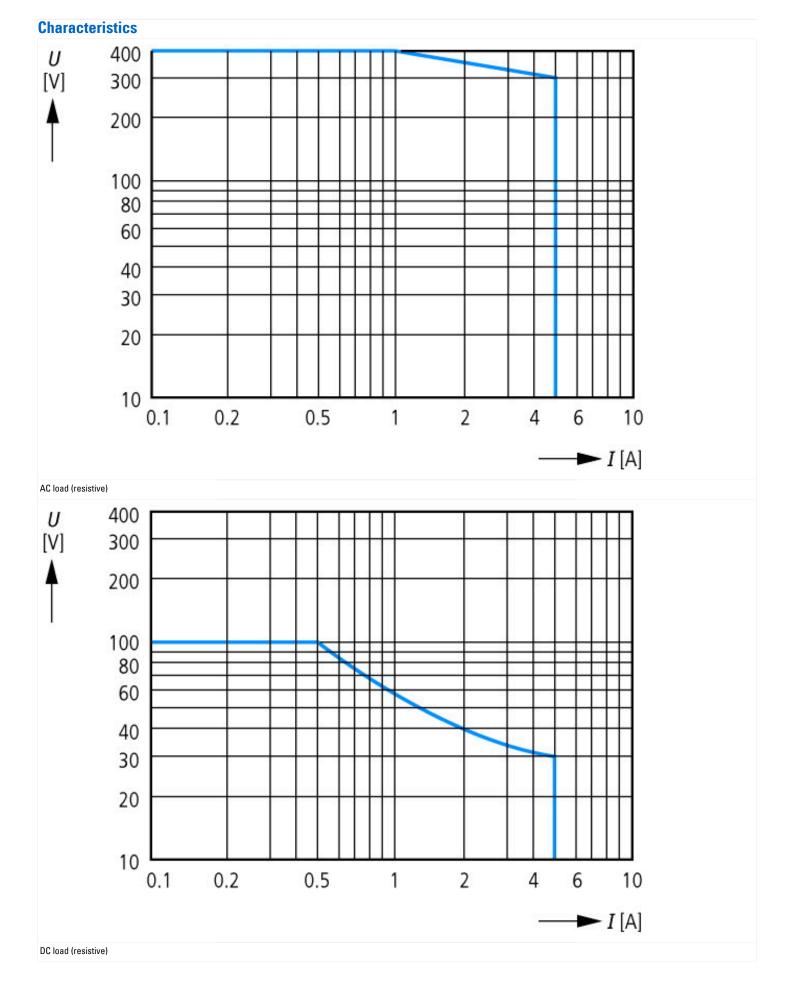
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

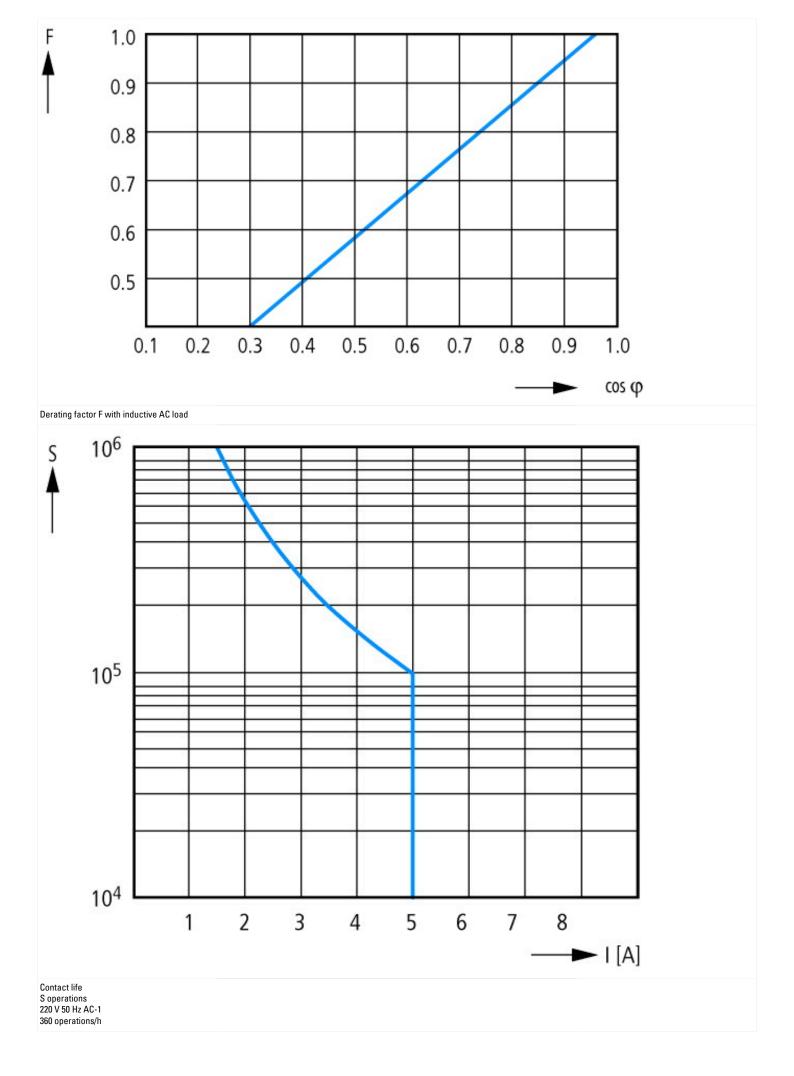
Technical data ETIM 7.0

Relays (EG000019) / (Fill) level monitoring relay (EC001447)					
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Level monitoring relay (ecl@ss10.0.1-27-37-18-13 [AKF107014])					
Type of electric connection		Screw connection			
Rated control supply voltage Us at AC 50HZ	V	220 - 240			
Rated control supply voltage Us at AC 60HZ	V	220 - 240			
Rated control supply voltage Us at DC	V	0 - 0			
Voltage type for actuating		AC			
With detachable clamps		No			
Number of inputs for electrodes		3			
Min. adjustable operate delay time	s	0.5			
Max. permitted operate delay time	s	10			
Min. adjustable off-delay time	s	0.5			
Max. permitted off-delay time	s	10			
Response value sensitivity adjustable		No			
Number of contacts as normally closed contact		0			
Number of contacts as normally open contact		0			
Number of contacts as change-over contact		2			
Physical measurement principle		Conductive			
Cascadable		No			
Width	mm	45			
Height	mm	78			
Depth	mm	110			

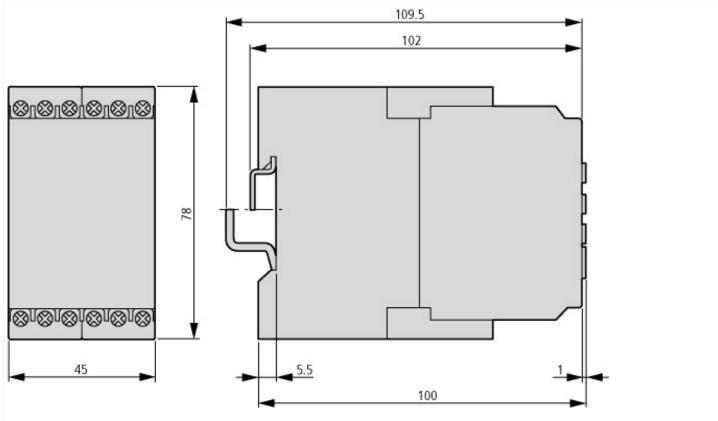
Approvals

Product Standards	IEC 255-6; UL 508; CSA-22.2 No. 14-05; CE marking
UL File No.	E29184
UL Category Control No.	NKCR, NKCR7
CSA File No.	203843
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP20, UL/CSA Type: -





Dimensions



Additional product information (links)

IL04913003Z (AWA2432-2697) Liquid level monitoring relays		
IL04913003Z (AWA2432-2697) Liquid level monitoring relays	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04913003Z2018_07.pdf	
Level monitoring relays	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.28	