

Liquid level monitoring relay, 1W, 220-240V50/60Hz, 5-100kOhm

Part no. Article no. Catalog No. EMR4-N100-1-B 221789 EMR4-N100-1-B



Delivery program

Basic function Level monitoring relays Monitoring of Selectable: protection against running dry or overflowing Adjustable pick-up time 5 - 100 kΩ Contact sequence Image: Contact sequence	Product range		EMR4+EMR5 measuring and monitoring relays
Monitoring of Fill level of conductive liquids Adjustable pick-up time 5 - 100 kΩ Contact sequence C MAX MIN 15	Basic function		Level monitoring relays
Adjustable pick-up time 5 - 100 kΩ Contact sequence C MAX MIN 15			Selectable: protection against running dry or overflowing
Contact sequence	Monitoring of		Fill level of conductive liquids
	Adjustable pick-up time		5 - 100 kΩ
AT A2 10 18	Contact sequence		$\begin{array}{c} C \\ MAX \\ HIN \\ H$
Supply voltage 220 - 240 V AC, 50/60 Hz	Supply voltage		220 - 240 V AC, 50/60 Hz
Width mm 22.5	Width	mm	22.5

Level monitoring relays

Technical data

Technical data in sheet catalogue

Other technical data	(sheet catalogue)
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Design verification as per IEC/EN 61439

Technical data for design verification			
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.

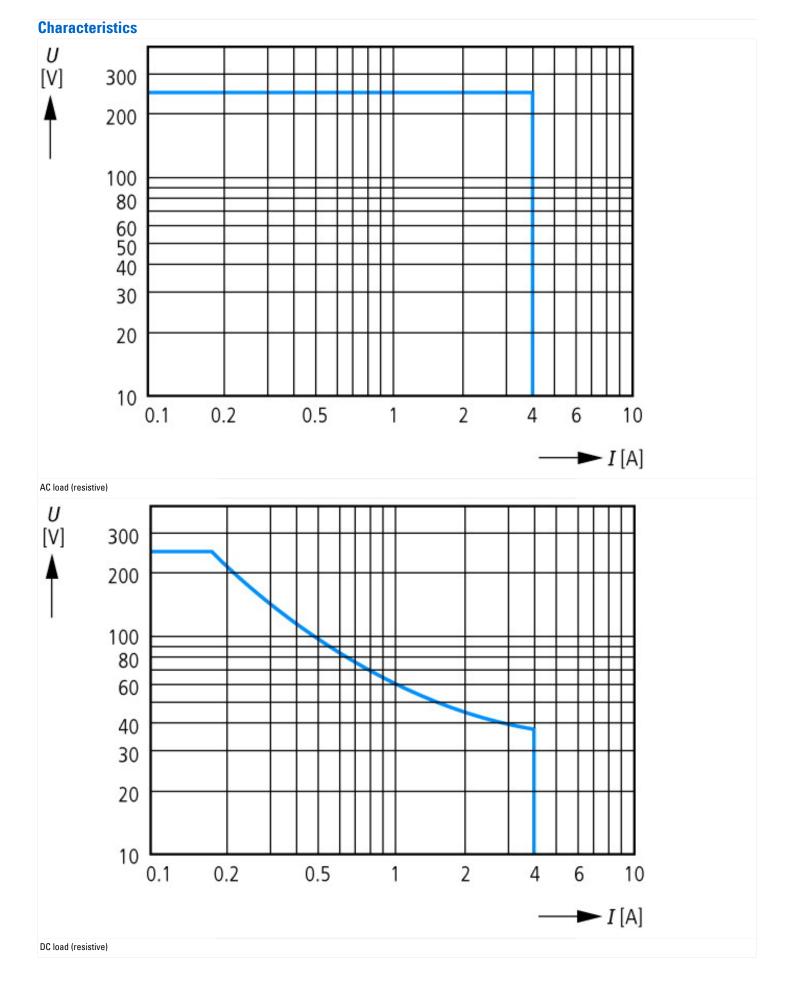
Technical data ETIM 6.0

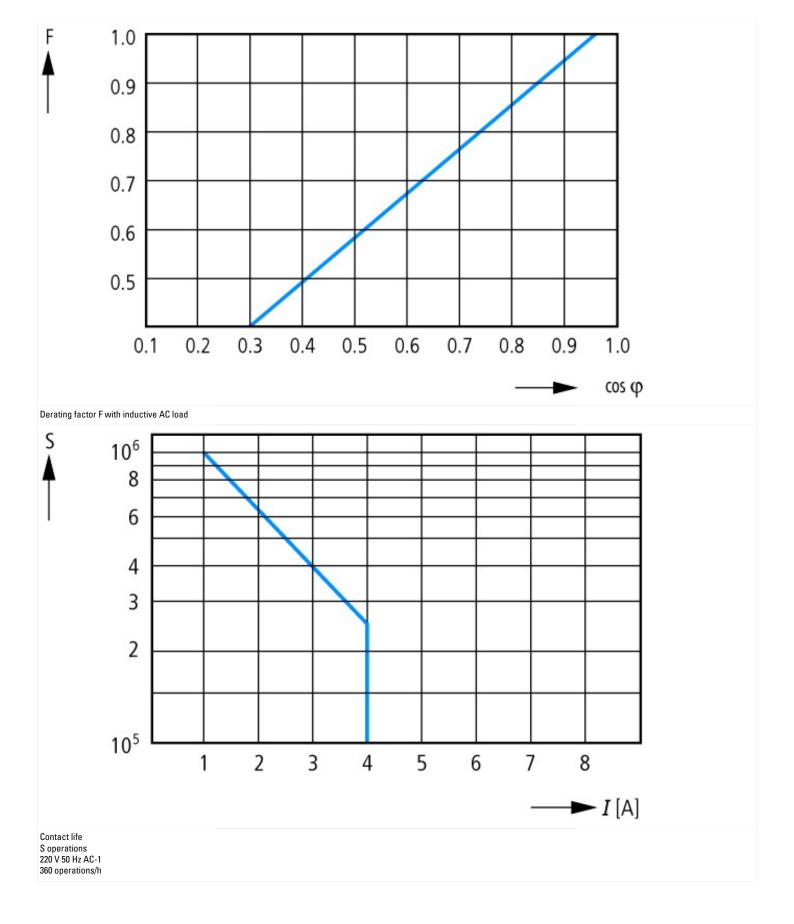
Relays (EG000019) / (Fill) level monitoring relay (EC001447)
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Level monitoring relay (ecl@ss8.1-27-37-18-13 [AKF107011])

(eci@550.1-27-57-10-15 [AKI 107011])		
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	0.25
Max. permitted operate delay time	S	0.25
Min. adjustable off-delay time	S	0
Max. permitted off-delay time	S	0
Response value sensitivity adjustable		Yes
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		0
Number of contacts as change-over contact		1
Physical measurement principle		Conductive
Width	mn	n 23
Height	mr	n 78
Depth	mn	n 110

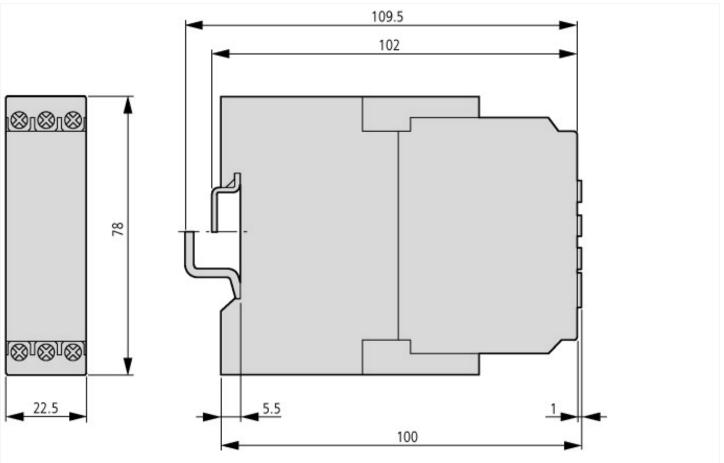
Approvals

IEC 255-6; UL 508; CSA-22.2 No. 14-05; CE marking
E29184
NKCR, NKCR7
203843
3211-03
UL listed, CSA certified
IEC: IP20, UL/CSA Type: -





Dimensions



Additional product information (links)

AWA2432-1864 level monitor AWA2432-1864 level monitor

Level monitoring relays

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/18641206.pdf http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.28