

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

Part no. Article no. Catalog No. EMR5-N80-1-B 134232 EMR5-N80-1-B



# **Delivery program**

Product range		EMR4+EMR5 measuring and monitoring relays
Basic function		Level monitoring relays
Monitoring of		Fill level of conductive liquids Mixture ratio of conductive liquids
Adjustable pick-up time		5 - 100 kΩ
Contact sequence		$\begin{array}{c} C \\ MAX \\ MIN \\ A1 \\ A2 \\ 16 \\ 18 \end{array}$
Supply voltage		220 - 240 V AC, 50/60 Hz
Width	mm	22.5

Level monitoring relays

#### **Technical data**

### Technical data in sheet catalogue

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# Design verification as per IEC/EN 61439

Technical data for design verification			
Heat dissipation capacity	P <sub>diss</sub>	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.

10.13 Mechanical function

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### **Technical data ETIM 6.0**

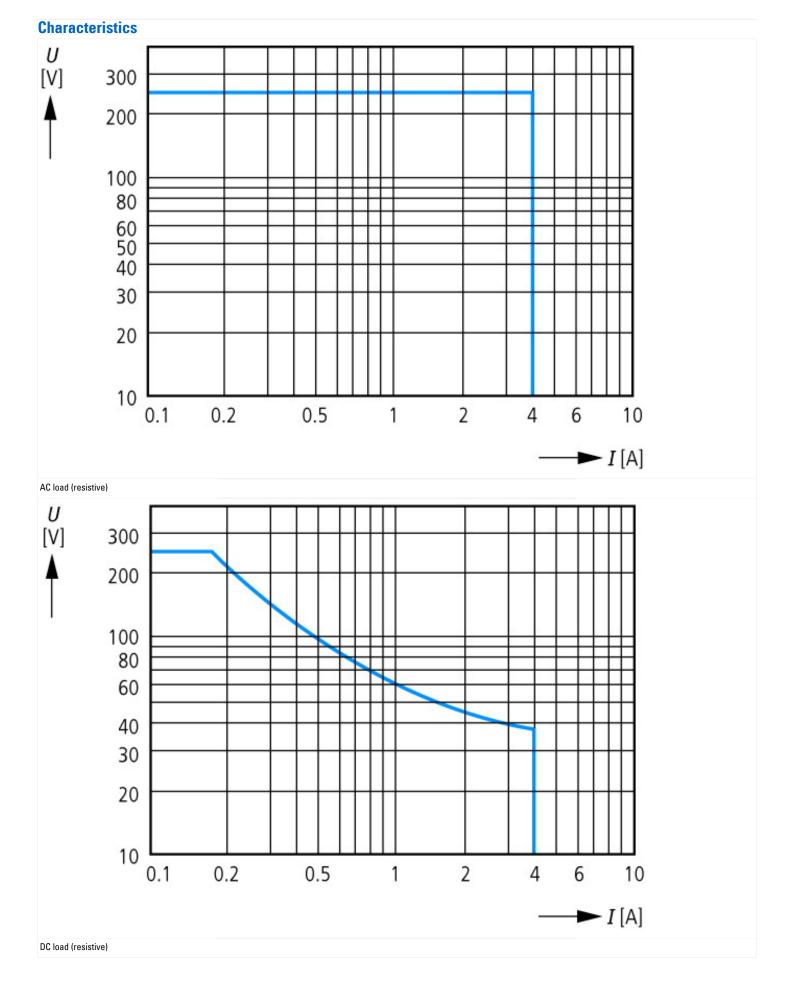
Relays (EG000019) / (Fill) level monitoring relay (EC001447)

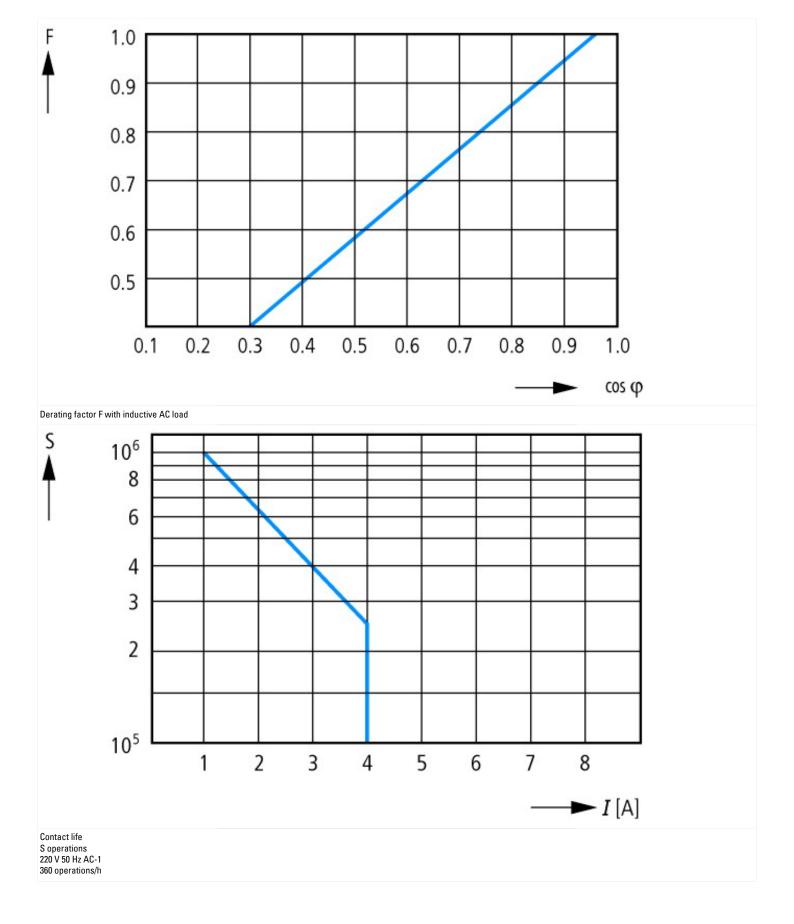
Electric engineering, automation, process control engineering / Low-voltage switc (ecl@ss8.1-27-37-18-13 [AKF107011])	n technology / Monitoring equipment (low-voltage switch technology) / Level monitoring relay
Type of electric connection	Screw connection
Rated control supply voltage Us at AC 50HZ	V 220 - 240

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		0
Min. adjustable operate delay time	S	0
Max. permitted operate delay time	s	0
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	mm	22.5
Height	mm	78
Depth	mm	100

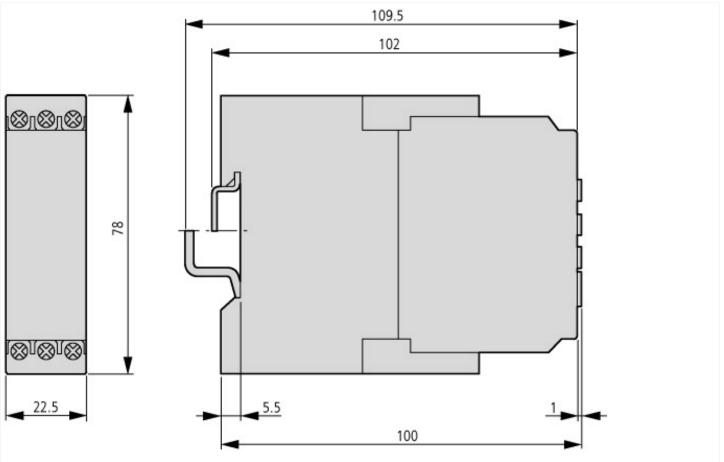
#### **Approvals**

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.	UL report valid
CSA Class No.	3211-03
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	IEC: IP20, UL/CSA Type: -









# Additional product information (links)

Level monitoring relays

http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.28