DATASHEET - EMR6-T100-A-1



Temperature monitor, 0 - +100 °C, 24 - 240 V AC, 50/60 Hz, 24 - 240 V DC

Part no.	**EMR6-T100-A-1**
Catalog No.	**184787**
Eaton Catalog No.	**EMR6-T100-A-1**

Powering Business Worldwide

Technical data

General

Standards			UL 508, CAN/CSA 22.2 No.14, EAC, CCC, GL, CE
Lifespan, mechanical	Operations	x 10^6	30
Climatic proofing			Damp heat, cyclical to IEC 60068-2-30: 24 h cycle, 55° C, 93% relative humidity, 96 h
Ambient temperature			
Operation		°C	
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	+ 60
Storage		°C	- 40 - 85
Mounting position			As required
Shock resistance			Class 2
Degree of protection			
Terminals			IP20
Enclosures			IP50
Terminal capacities		mm^2	
Solid		mm^2	1 x 0.5-2.5 (1 x 18-14 AWG)
Flexible with ferrule		mm^2	2 x 0.5-1.5 (2 x 18-16 AWG)
Standard screwdriver		mm	4 x 0.8
Tightening torque		Nm	0.5 - 0.8
Fixing			Snap fixing, top-hat rail IEC/EN 60715

Contacts

Rated impulse withstand voltage	U_{imp}	V AC	4000
Overvoltage category/pollution degree			III/3

Power supply

Supply voltage			24 - 240 V AC, 50/60 Hz 24 - 240 V DC
Voltage tolerance		x U_c	0.85 - 1.1
Power consumption		VA	2.9
Rated frequency	f	Hz	50 - 60
Duty factor		% DF	100

Measuring circuits

Hysteresis		%	2 … 20

Status indication

Status indicator (LED)			Green, solid: Supply voltage Other states depending on fault (see IL): Measured value

Relay output contacts

Lifespan, electrical (AC-12/230 V/4 A)	Operations	x 10^6	
Lifespan, electrical	Operations	x 10^6	0.1

Electromagnetic compatibility (EMC)

Electromagnetic compatibility			IEC/EN 60947-6-2
ESD	Air/contact discharge	kV	IEC/EN 61000-4-2 level 3
HF-immunity to radiation			IEC/EN 61000-4-3 level 3
Burst			IEC/EN 61000-4-4 level 3
Surge			IEC/EN 61000-4-5 Level 4
HF-immunity to line-conducted interference			IEC/EN 61000-4-6 level 3

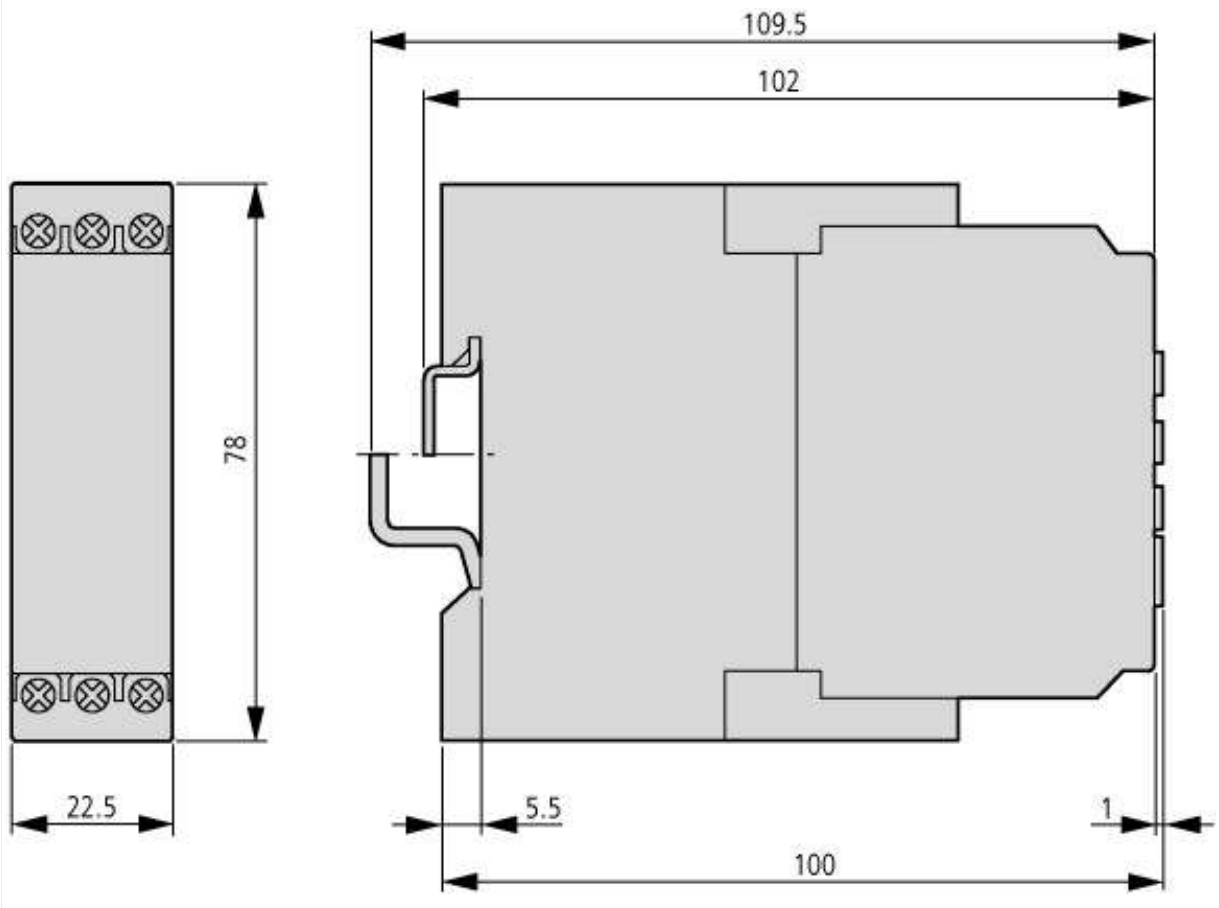
Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-40
Operating ambient temperature max.	°C	60

Technical data ETIM 7.0

Relays (EG000019) / Temperature monitoring relay (EC001446)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Temperature monitoring equipment (ecl@ss10.0.1-27-37-18-10 [AKF104014])		
Type of electric connection		Screw connection
Rated control supply voltage Us at AC 50HZ	V	24 - 240
Rated control supply voltage Us at AC 60HZ	V	24 - 240
Rated control supply voltage Us at DC	V	24 - 240
Voltage type for actuating		AC/DC
With detachable clamps		No
Number of measuring circuits		1
Error registration possible		No
External reset possible		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
Temperature measuring range	°C	
Resistance measuring range	Ohm	
Width	mm	23
Height	mm	85
Depth	mm	110

Dimensions



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