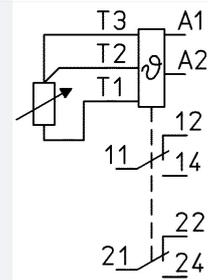




Temperature monitor, -50 - +50 °C, 24 - 240 V AC, 50/60 Hz, 24 - 240 V DC

Part no. **EMR6-T50-A-1**
 Catalog No. **184786**
 Alternate Catalog No. **EMR6-T50-A-1**
 EL-Nummer (Norway) **4101982**

Delivery program

Product range			EMR Measuring and monitoring relays
Basic function			Temperature monitor
Monitoring of			Overheating Supercooling Superheating and supercooling (window)
Temperature measuring range		?C	-50 - +50
Contact sequence			
Supply voltage			24 - 240 V AC, 50/60 Hz 24 - 240 V DC
Width		mm	22.5

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
MTBF (mean time between failures)			332048 h

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
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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
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Status indication

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

Minimum Switching capacity			10 mA / 24 V
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 (ec1@ss10.0.1-27-37-18-10 [AKF104014])			
Type of electric connection			Screw connection
Rated control supply voltage U _s at AC 50HZ		V	24 - 240
Rated control supply voltage U _s at AC 60HZ		V	24 - 240
Rated control supply voltage U _s 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	22.5
Height		mm	85.6
Depth		mm	104.6

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

Dimensions

