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EMR6-T100-A-1 - Temperature monitor, 0 - +100 °C, 24 - 240 V AC, 50/60 Hz, 24 - 240 V DC



184787 EMR6-T100-A-1

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184787 EMR6-T100-A-1

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

Alternate Catalog No.

EMR6-T100-A-1

EL-Nummer (Norway)

4101983

Temperature monitor, Product range: EMR Measuring and monitoring relays, Monitoring of: Overheating, Supercooling, Superheating and supercooling (window), Temperature measuring range: 0 - +100 °C, Supply voltage: 24 - 240 V AC, 50/60 Hz, 24 - 240 V DC, Mounting position: As required, Fixing: Snap fixing, top-hat rail IEC/EN 60715, Width: 22.5 mm, Standards: UL 508, CAN/CSA 22.2 No.14, EAC, CCC, GL, CE

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Delivery program

Product range

EMR Measuring and monitoring relays

Basic function

Temperature monitor

Monitoring of

Overheating

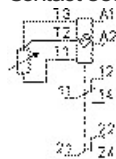
Supercooling

Superheating and supercooling (window)

Temperature measuring range

0 - +100 °C

Contact sequence



Supply voltage

24 - 240 V AC, 50/60 Hz

24 - 240 V DC

Width

22.5 mm

Technical data

General

Standards
 UL 508, CAN/CSA 22.2 Nb.14, EAC, CCC, GL, CE
 Lifespan, mechanical [Operations]
 30 x 10⁶
 Climatic proofing
 Damp heat, cyclical to IEC 60068-2-30: 24 h cycle, 55° C, 93% relative humidity, 96 h
 Ambient temperatureOperationOperating ambient temperature min.
 -40 °C
 Ambient temperatureOperationOperating ambient temperature max.
 +60 °C
 Ambient temperatureStorage
 - 40 - 85 °C
 Mounting position
 As required
 Shock resistance
 Class 2
 Degree of protectionTerminals
 IP20
 Degree of protectionEnclosures
 IP50
 Terminal capacitiesSolid
 1 x 0.5-2.5 (1 x 18-14 AWG) mm²
 Terminal capacitiesFlexible with ferrule
 2 x 0.5-1.5 (2 x 18-16 AWG) mm²
 Standard screw driver
 4 x 0.8 mm
 Tightening torque
 0.5 - 0.8 Nm
 Fixing
 Snap fixing, top-hat rail IEC/EN 60715
 MTBF (mean time between failures)
 332048 h
 Contacts
 Rated impulse withstand voltage [U_{imp}]
 4000 V AC
 Overvoltage category/pollution degree
 III/3
 Power supply
 Supply voltage
 24 - 240 V AC, 50/60 Hz
 24 - 240 V DC
 Voltage tolerance
 0.85 - 1.1 x U_c
 Power consumption
 2.9 VA
 Rated frequency [f]
 50 - 60 Hz
 Duty factor
 100 % DF
 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
 Minimum Switching capacity
 10 mA / 24 V
 Lifespan, electrical (AC-12/230 V/4 A) [Operations]Lifespan, electrical [Operations]
 0.1 x 10⁶
 Electromagnetic compatibility (EMC)
 Electromagnetic compatibility
 IEC/EN 60947-6-2
 ESD [Air/contact discharge]
 IEC/EN 61000-4-2 level 3 kV
 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

Operating ambient temperature min.
-40 °C
Operating ambient temperature max.
+60 °C

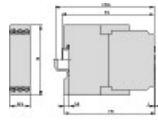
Technical data ETIM 7.0

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 U_s at AC 50HZ
24 - 240 V
Rated control supply voltage U_s at AC 60HZ
24 - 240 V
Rated control supply voltage U_s at DC
24 - 240 V
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
22.5 mm
Height
85.6 mm
Depth
104.6 mm

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



CAD data

- [Product-specific CAD data](#)
(Web)
- [3D Preview](#)
(Web)

DWG files

- [DA-CD-emr6_r_t_v_j](#)
File
(Web)

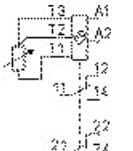
edz files

- [DA-CE-ETN.EMR6-T100-A-1](#)
File
(Web)

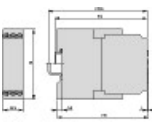
Step files

- [DA-CS-emr6_r_t_v_j](#)
File
(Web)

Wiring diagram

- 
[2430SW-2](#)
Line drawing

Dimensions single product

- 
[240X003](#)
Line drawing
Measuring and monitoring relay

Product photo

- 
[2400PIC-5](#)
Photo

Instruction Leaflet

- [Temperature monitoring relay \(IL121015ZU\)](#)
Asset
(PDF, multilingual)

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