

Specifications



Eaton 184787

Eaton Moeller® series EMR6 Temperature monitor, 0 - +100 °C, 24 - 240 V AC, 50/60 Hz, 24 - 240 V DC

General specifications

PRODUCT NAME	Eaton Moeller® series EMR6 Temperature monitoring relay
CATALOG NUMBER	184787
MODEL CODE	EMR6-T100-A-1
EAN	4015081788231
PRODUCT LENGTH/DEPTH	103.7 mm
PRODUCT HEIGHT	85.6 mm
PRODUCT WIDTH	22.5 mm
PRODUCT WEIGHT	0.151 kg
CERTIFICATIONS	UL 508 CCC CE CSA-C22.2 No. 14 EAC GL



Powering Business Worldwide

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
MONITORING FUNCTION	Superheating and supercooling (window) Supercooling Overheating
TEMPERATURE MEASURING RANGE - MAX	100 °C
TEMPERATURE MEASURING RANGE - MIN	0 °C

Measuring circuits

HYSTERESIS	2 - 20 %
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Electro magnetic compatibility

AIR DISCHARGE	According to IEC/EN 61000-4-2 level 3
BURST IMPULSE	According to IEC/EN 61000-4-4, level 3
CONTACT DISCHARGE	According to IEC/EN 61000-4-2, Level 3
ELECTROMAGNETIC COMPATIBILITY	According to IEC/EN 60947-6-2
IMMUNITY TO LINE-CONDUCTED INTERFERENCE	Level 3 (according to IEC/EN 61000-4-6)
IMMUNITY TO RADIATION	Level 3 (according to IEC/EN 61000-4-3)
SURGE RATING	According to IEC/EN 61000-4-5 Level 4

General information

DEGREE OF PROTECTION	Terminals: IP20 Enclosure: IP50
LED INDICATOR	Other states depending on fault (see IL): Measured value Status indication of Supply voltage: Green, solid light
LIFESPAN, MECHANICAL	30,000,000 Operations
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	EMR Measuring and monitoring relays
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
SHOCK RESISTANCE	Class 2
TYPE	Temperature monitor
VOLTAGE TYPE	AC/DC

Power supply

DUTY FACTOR	100 %, Power supply
POWER CONSUMPTION	2.9 VA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY	24 V

VOLTAGE (US) AT AC, 50 HZ - MIN	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
SUPPLY VOLTAGE	24 - 240 V DC 24 - 240 V AC, 50/60 Hz
VOLTAGE TOLERANCE	0.85 x U _c 1.1 x U _c

Relay output contacts	
LIFESPAN, ELECTRICAL	100,000 Operation (at 230 V, AC-12, 4 A)
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0

Terminal capacities	
CONNECTION TYPE	Snap fixing, top-hat rail IEC/EN 60715
SCREWDRIVER SIZE	4 x 0.8 mm, Terminal screw
TERMINAL CAPACITY	2 x (0.5-1.5) mm ² , (2 x (18-16) AWG), flexible with ferrule 1 x (0.5-2.5) mm ² , (1 x (18-14) AWG), solid
TIGHTENING TORQUE	Min. 0.5 Nm, Screw terminals Max. 0.8 Nm, Screw terminals

Resources

APPLICATION NOTES	easyE4 and EMR6 - the perfect match for safe motor control
BROCHURES	EMR6 - EMT6 - ETR4 brochure
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-temperature-monitoring-relay-declaration-of-conformity-uk251045en.pdf eaton-temperature-monitoring-relay-declaration-of-conformity-eu251553en.pdf
DRAWINGS	eaton-monitoring-relay-dimensions-002.eps
INSTALLATION INSTRUCTIONS	IL121015ZU
MCAD MODEL	DA-CS-emr6_r_t_v_i eaton-cam-switches-mcad-drawings-emr6-r-t-v-i.dwg
WIRING DIAGRAMS	eaton-current-monitors-emr6-temperature-monitoring-relay-wiring-diagram.bmp

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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