

Specifications



Eaton 184757

Eaton Moeller® series EMR6 Level monitoring relays, 24 - 240 V AC, 50/60 Hz, 24 - 240 V DC, 0.1 - 1000 k Ω

General specifications

PRODUCT NAME	Eaton Moeller® series EMR6 Liquid level monitoring relay
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CATALOG NUMBER	184757
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MODEL CODE	EMR6-N1000-A-1
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EAN	4015081787937
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PRODUCT LENGTH/DEPTH	103.7 mm
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PRODUCT HEIGHT	85.6 mm
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PRODUCT WIDTH	22.5 mm
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PRODUCT WEIGHT	0.143 kg
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CERTIFICATIONS	EAC EN 61557 GL RCM IEC/EN 60255-6 DNV RMRS UL CSA
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Powering Business Worldwide

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
FUNCTIONS	Response value sensitivity adjustable
MONITORING FUNCTION	Mixture ratio of conductive liquids Fill level of conductive liquids

Electro magnetic compatibility

AIR DISCHARGE	Air/contact discharge, according to IEC/EN 61000-4-2, level 3
BURST IMPULSE	According to IEC/EN 61000-4-4, 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	Enclosure: IP50 Terminals: IP20
LED INDICATOR	Status indication of Min and Max occupied: Yellow, solid light Status indication of active release delay: Green, flashing light Status indication of Supply voltage: Green, solid light Status indication of Min occupied: Yellow, flashing light Status indication of Supply voltage: Green LED Status indication of Output relay excited: Yellow, solid light (R) Status indication of energized output relay: Yellow LED
LIFESPAN, MECHANICAL	10,000,000 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	Level monitoring relay

Measuring circuits	
CONNECTION	Minimum level, MIN, Sensor inputs, Measuring circuits
	Earth reference sensor, C, Sensor inputs, Measuring circuits
SENSOR VOLTAGE	Maximum level, MAX, Sensor inputs, Measuring circuits
	6 VAC

VOLTAGE TYPE	AC/DC
Power supply	
DUTY FACTOR	100 %, Power supply
POWER CONSUMPTION	2.6 VA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	24 V
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 AC, 50/60 Hz 24 - 240 V DC
VOLTAGE TOLERANCE	0.85 x Uc 1.1 x Uc

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
RATED OPERATIONAL CURRENT (IE)	5 A at AC-12, 230 V 2 A at DC-12, 24 V 3 A at AC-15, 230 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	300 V
SHORT-CIRCUIT PROTECTION RATING	Max. 10 A Fast/gL, Fuse, Relay output contacts

Timing cycle

ADJUSTMENT RANGE	0.1 - 1000 kΩ, Sensitivity
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Terminal capacities

CONNECTION TYPE	Snap fixing, top-hat rail IEC/EN 60715
SCREWDRIVER SIZE	5.5 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 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-liquid-level-monitoring-relay-declaration-of-conformity-uk251044en.pdf eaton-liquid-level-monitoring-relay-declaration-of-conformity-eu251552en.pdf
DRAWINGS	eaton-current-monitors-emr6-phase-monitoring-relay-dimensions.tif
INSTALLATION INSTRUCTIONS	IL121005ZU
MCAD MODEL	eaton-cam-switches-mcad-drawings-emr6-r-t-v-i.dwg DA-CS-emr6_r_t_v_i
WIRING DIAGRAMS	eaton-level-monitors-emr6-liquid-level-monitoring-relay-wiring-diagram.bmp

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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