

Eaton 184757

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

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

TYPE	Level monitoring relay
AIR DISCHARGE	Air/contact discharge, according to IEC/EN 61000-4-2, level 3
ELECTRIC CONNECTION TYPE	Screw connection
POLLUTION DEGREE	3
POWER CONSUMPTION	2.6 VA
BURST IMPULSE	According to IEC/EN 61000-4-4, level 3
CONNECTION	Minimum level, MIN, Sensor inputs, Measuring circuits Earth reference sensor, C, Sensor inputs, Measuring circuits Maximum level, MAX, Sensor inputs, Measuring circuits
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30
ADJUSTABLE OFF-DELAY TIME - MIN	0.1 s
ADJUSTABLE OPERATE DELAY TIME - MIN	0.1 s
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF INPUTS FOR ELECTRODES	3
PERMITTED OFF-DELAY TIME - MAX	30 s
PERMITTED OPERATE	30 s

DECLARATIONS OF CONFORMITY	eaton-liquid-level-monitoring-relay-declaration-of-conformity-uk251044en.pdf
	IL121005ZU
	eaton-level-monitors-emr6-liquid-level-monitoring-relay-wiring-diagram.bmp
	EMR6 - EMT6 - ETR4 brochure
	eaton-current-monitors-emr6-phase-monitoring-relay-dimensions.tif
	easyE4 and EMR6 - the perfect match for safe motor control

DELAY TIME - MAX	
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 IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
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
ADJUSTMENT RANGE	0.1 - 1000 kΩ, Sensitivity
LIFESPAN, ELECTRICAL	100,000 Operation (at 230 V, AC-12, 4 A)
SCREWDRIVER SIZE	5.5 x 0.8 mm, Terminal screw
VOLTAGE TYPE	AC/DC
CONNECTION TYPE	Snap fixing, top-hat rail IEC/EN 60715
MOUNTING POSITION	As required
SHOCK RESISTANCE	Class 2
OVERVOLTAGE CATEGORY	III
SHORT-CIRCUIT PROTECTION RATING	Max. 10 A Fast/gL, Fuse, Relay output contacts
DUTY FACTOR	100 %, Power supply
DEGREE OF PROTECTION	Enclosure: IP50 Terminals: IP20
SUPPLY VOLTAGE	24 - 240 V AC, 50/60 Hz 24 - 240 V DC
SURGE RATING	According to IEC/EN 61000-4-5 Level 4
ELECTROMAGNETIC COMPATIBILITY	According to IEC/EN 60947-6-2
FUNCTIONS	Response value sensitivity adjustable

IMMUNITY TO LINE-CONDUCTED INTERFERENCE	Level 3 (according to IEC/EN 61000-4-6)
TIGHTENING TORQUE	Min. 0.5 Nm, Screw terminals 0.8 Nm, Screw terminals
IMMUNITY TO RADIATION	Level 3 (according to IEC/EN 61000-4-3)
VOLTAGE TOLERANCE	0.85 x Uc 1.1 x Uc
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
MONITORING FUNCTION	Mixture ratio of conductive liquids Fill level of conductive liquids
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	300 V
SENSOR VOLTAGE	6 VAC
PRODUCT CATEGORY	EMR Measuring and monitoring relays
PHYSICAL MEASUREMENT PRINCIPLE	Conductive
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
VOLTAGE TYPE OF SUPPLY VOLTAGE	AC/DC
VOLTAGE TYPE OF OPERATING VOLTAGE	AC/DC
RATED SWITCH CURRENT	4 A
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	24 V
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	240 V
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	24 V
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	240 V
SUPPLY VOLTAGE AT DC - MIN	24 V
SUPPLY VOLTAGE AT DC - MAX	240 V
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	240 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	240 V
OPERATING VOLTAGE AT DC - MIN	24 V
OPERATING VOLTAGE AT DC - MAX	240 V

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

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