Eaton 184754

Eaton Moeller® series EMR6 Overcurrent and undercurrent monitor, Current measuring range: 0.3 - 1.5 A, 1 - 5 A, 3 - 15 A, Supply voltage: 24 - 240 V AC, 50/60 Hz, 24 - 240 V DC

PRODUCT NAME	Eaton Moeller® series EMR6 Overcurrent and undercurrent monitor
CATALOG NUMBER	184754
PRODUCT LENGTH/DEPTH	103.7 mm
PRODUCT HEIGHT	85.6 mm
PRODUCT WIDTH	22.5 mm
PRODUCT WEIGHT	0.179 kg
CERTIFICATIONS	CCC GL RMRS EAC CSA-C22.2 No. 14 UL 508
CATALOG NOTES	Extension of the measurement range possible with current transformers

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TYPE	Current 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
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
RATED OPERATIONAL CURRENT (IE)	4 A at DC-12, 24 V 4 A at AC-12, 230 V
LIFESPAN, ELECTRICAL	100,000 Operation (at 230 V, AC-12, 4 A)
SCREWDRIVER SIZE	4 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
DELAY TIME	On delay: None = 0 or adjustable from 0.1 to 30 s
SURGE RATING	According to IEC/EN 61000-4-5 Level 4
ELECTROMAGNETIC COMPATIBILITY	According to IEC/EN 60947-6-2
TEMPERATURE ERROR	0.06 %/°C, Measuring circuits
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE	2 x 18-16

DECLARATIONS OF CONFORMITY	eaton-window-current-monitoring-relay-declaration-of-conformity-uk251042en.pdf
	IL121004ZU
	eaton-current-monitors-emr6-wiring-diagram.bmp eaton-monitoring-wiring-diagram.eps
	EMR6 - EMT6 - ETR4 brochure
	eaton-current-monitors-emr6-phase-monitoring-relay-dimensions.tif
	easyE4 and EMR6 - the perfect match for safe motor control

AWG)	
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x 0.5-1.5 mm^2
TERMINAL CAPACITY (SOLID AWG)	18 - 14
FUNCTIONS	Monitoring of single-phase DC and AC networks DC-voltage under current DC-voltage over current Single-phase under current possible Single-phase over current possible
TERMINAL CAPACITY (SOLID)	1 x 0.5-2.5 mm^2
HYSTERESIS	3 - 30 %
IMMUNITY TO LINE-CONDUCTED INTERFERENCE	Level 3 (according to IEC/EN 61000-4-6)
TIGHTENING TORQUE	0.8 Nm, Screw terminals Min. 0.6 Nm, Screw terminals
IMMUNITY TO RADIATION	Level 3 (according to IEC/EN 61000-4-3)
VOLTAGE TOLERANCE	1.1 x Uc 0.85 x Uc
TIMING CYCLE	0.06 %/°C, Time error within temperature range Adjustable from 0.1 – 30 s, Reset delay/Off-delay time 0.5 % Error within supply voltage (Measuring circuits) 0.5 %, Time error within supply voltage
LED INDICATOR	Status indication of energized output relay: Yellow LED Status indication of Supply voltage: Green, solid light Status indication of measured value: Red LED Status indication of Supply voltage: Green LED Status indication of active release delay: Green, flashing light Status indication of Output relay excited: Yellow, solid light

	Status indication of Undercurrent: Red, flashing light
LIFESPAN, MECHANICAL	30,000,000 Operations
MONITORING FUNCTION	Overcurrent Undercurrent
ADJUSTABLE DELAY-ON ENERGIZATION TIME - MIN	0.1 s
ADJUSTABLE OFF-DELAY TIME - MIN	0 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
CURRENT MEASUREMENT - MAX	15 A
CURRENT MEASUREMENT - MIN	0.3 A
MEASURING CYCLE	80 ms
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
PERMITTED DELAY-ON ENERGIZATION TIME - MAX	30 s
PERMITTED OFF-DELAY TIME - MAX	0 s
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
INPUT CURRENT	Input B3-C: 3 - 15 A

	Input B1-C: 0.3 - 1.5 A Input B2-C: 1 - 5 A
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
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	3 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	2 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	250 V
PRODUCT CATEGORY	EMR Measuring and monitoring relays
TYPE OF CURRENT	AC/DC
VOLTAGE MEASUREMENT - MIN	24 V
VOLTAGE MEASUREMENT - MAX	240 V
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
RESPONSE VALUE	0.3 A

AMPERAGE 1 - MIN	
RESPONSE VALUE AMPERAGE 1 - MAX	1.5 A
RESPONSE VALUE AMPERAGE 2 - MIN	3 A
RESPONSE VALUE AMPERAGE 2 - MAX	15 A
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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