Eaton 184764

Eaton Moeller® series EMR6 Phase monitoring relays, Multi-functional, 300 - 500 V AC, 50/60 Hz

PRODUCT NAME	Eaton Moeller® series EMR6 Phase monitoring relay
CATALOG NUMBER	184764
PRODUCT LENGTH/DEPTH	103.7 mm
PRODUCT HEIGHT	85.6 mm
PRODUCT WIDTH	22.5 mm
PRODUCT WEIGHT	0.16 kg
CERTIFICATIONS	GL UL IEC CSA CCC



ТҮРЕ	Phase monitoring relay
FEATURES	Imbalance threshold values adjustable 2 - 25 % of mean value of phase voltages
AIR DISCHARGE	Air/contact discharge, according to IEC/EN 61000-4-2, level 3
ELECTRIC CONNECTION TYPE	Screw connection
POLLUTION DEGREE	3
POWER CONSUMPTION	3 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
ADJUSTABLE DELAY-ON ENERGIZATION TIME - MIN	0.1 s
ADJUSTABLE OFF-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
MEASURING CYCLE	50 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	30 s

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eaton-phase-monitors- monitoring-wiring- diagram.eps
eaton-phase-monitors- emr6-phase-monitoring- relay-wiring-diagram.bmp
EMR6 - EMT6 - ETR4 brochure
eaton-current-monitors- emr6-phase-monitoring- relay-dimensions-002.tif
easyE4 and EMR6 - the perfect match for safe motor control

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	500 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	300 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	500 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	300 V
RATED OPERATIONAL CURRENT (IE)	4 A at AC-12, 230 V 3 A at AC-15, 230 V 2 A at DC-13, 24 V 4 A at DC-12, 24 V
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
CONNECTION TYPE	Snap fixing, top-hat rail IEC/EN 60715
MOUNTING POSITION	As required
SHOCK RESISTANCE	Class 2
OVERVOLTAGE CATEGORY	Ш
	III Max. 10 A Fast/gL, Fuse, Relay output contacts
CATEGORY SHORT-CIRCUIT	Max. 10 A Fast/gL, Fuse,
CATEGORY SHORT-CIRCUIT PROTECTION RATING	Max. 10 A Fast/gL, Fuse, Relay output contacts
CATEGORY SHORT-CIRCUIT PROTECTION RATING DUTY FACTOR	Max. 10 A Fast/gL, Fuse, Relay output contacts 100 %, Power supply Enclosure: IP50
CATEGORY SHORT-CIRCUIT PROTECTION RATING DUTY FACTOR DEGREE OF PROTECTION	Max. 10 A Fast/gL, Fuse, Relay output contacts 100 %, Power supply Enclosure: IP50 Terminals: IP20
CATEGORY SHORT-CIRCUIT PROTECTION RATING DUTY FACTOR DEGREE OF PROTECTION SUPPLY VOLTAGE	Max. 10 A Fast/gL, Fuse, Relay output contacts 100 %, Power supply Enclosure: IP50 Terminals: IP20 300 - 500 V AC, 50/60 Hz 0.2 s, Response delay time On-delay/off-delay: none = 0 or adjustable between
CATEGORY SHORT-CIRCUIT PROTECTION RATING DUTY FACTOR DEGREE OF PROTECTION SUPPLY VOLTAGE DELAY TIME	Max. 10 A Fast/gL, Fuse, Relay output contacts 100 %, Power supply Enclosure: IP50 Terminals: IP20 300 - 500 V AC, 50/60 Hz 0.2 s, Response delay time On-delay/off-delay: none = 0 or adjustable between 0.1 - 30 s According to IEC/EN
CATEGORY SHORT-CIRCUIT PROTECTION RATING DUTY FACTOR DEGREE OF PROTECTION SUPPLY VOLTAGE DELAY TIME SURGE RATING ELECTROMAGNETIC	Max. 10 A Fast/gL, Fuse, Relay output contacts 100 %, Power supply Enclosure: IP50 Terminals: IP20 300 - 500 V AC, 50/60 Hz 0.2 s, Response delay time On-delay/off-delay: none = 0 or adjustable between 0.1 - 30 s According to IEC/EN 61000-4-5 Level 4 According to IEC/EN
CATEGORY SHORT-CIRCUIT PROTECTION RATING DUTY FACTOR DEGREE OF PROTECTION SUPPLY VOLTAGE DELAY TIME SURGE RATING ELECTROMAGNETIC COMPATIBILITY	Max. 10 A Fast/gL, Fuse, Relay output contacts 100 %, Power supply Enclosure: IP50 Terminals: IP20 300 - 500 V AC, 50/60 Hz 0.2 s, Response delay time On-delay/off-delay: none = 0 or adjustable between 0.1 - 30 s According to IEC/EN 61000-4-5 Level 4 According to IEC/EN 60947-6-2 0.06 %/°C, Measuring

	Multi-functional
HYSTERESIS	0 - 5 %
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)
SUITABLE FOR	Three-phase networks
VOLTAGE TOLERANCE	0.85 x Uc 1.1 x Uc
TIMING CYCLE	0.06 %/°C, Time error within temperature range 0.5 % Error within supply voltage (Measuring circuits) 0.5 %, Time error within supply voltage Adjustable from 0.1 – 30 s, Reset delay/Off-delay time
LED INDICATOR	Status indication of Phase sequence fault: Red, flashing light (F1 and F2 alternating) Status indication of energized output relay: Green flashing (R) Status indication of Phase sequence error: Red LEDs (F1 and F2 flashing) Status indication of Overvoltage: F1 red, solid light Status indication of Relay energized: Yellow, solid light Status indication of Phase failure: F1 red, solid light and F2 red, flashing light Status indication of Supply voltage: Green, solid light Status indication of Delay time running: Yellow, flashing light Status indication of Phase failure: Red LEDs (F1 on, F2 flashes) Status indication of Imbalance: Red, solid light (F1 and F2) Status indication of Supply

	voltage: Green LED (R on) Status indication of Undervoltage: F2 red, solid light Status indication of Overvoltage: Red LED (F1 on) Status indication of Undervoltage: Red LED (F2 on)
LIFESPAN, MECHANICAL	30,000,000 Operations
MONITORING FUNCTION	Phase imbalance monitoring Phase failure Undervoltage Phase sequence monitoring Phase sequence (can be deactivated) Overvoltage Imbalance
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	250 V
VOLTAGE MEASUREMENT - MAX	500 V
VOLTAGE MEASUREMENT - MIN	300 V
PRODUCT CATEGORY	EMR Measuring and monitoring relays
TERMINAL CAPACITY	1 x (0.5-2.5) mm ² , (1 x (18- 14) AWG), solid 2 x (0.5-1.5) mm ² , (2 x (18- 16) AWG), flexible with ferrule
VOLTAGE TYPE OF SUPPLY VOLTAGE	AC
VOLTAGE TYPE OF OPERATING VOLTAGE	AC
RATED SWITCH CURRENT	4 A
SUPPLY VOLTAGE AT AC,	300 V

50 HZ - MIN	
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	500 V
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	300 V
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	500 V
OPERATING VOLTAGE AT AC, 50 HZ - MIN	300 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	500 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	300 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	500 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
:



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