

Eaton 184789

Eaton Moeller® series EMR6 Phase sequence relays, 200 - 500 V AC, 50/60 Hz

General specifications

PRODUCT NAME	Eaton Moeller® series EMR6 Phase sequence relay
CATALOG NUMBER	184789
EAN	4015081788255
PRODUCT LENGTH/DEPTH	103.7 mm
PRODUCT HEIGHT	85.6 mm
PRODUCT WIDTH	22.5 mm
PRODUCT WEIGHT	0.16 kg
CERTIFICATIONS	IEC/EN 60255-6
MODEL CODE	EMR6-F500-G-1

Features & Functions

ELECTRIC CONNECTION TYPE	Screw connection
FEATURES	Fixed response delay
FUNCTIONS	Phase failure detection Monitoring of three-phase networks
MONITORING FUNCTION	Phase failure Phase sequence monitoring Phase sequence
VOLTAGE MEASUREMENT - MIN	200 V
VOLTAGE MEASUREMENT - MAX	500 V

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-20 °C
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30

General information

DEGREE OF PROTECTION	Enclosure: IP50 Terminals: IP20
LIFESPAN, MECHANICAL	30,000,000 Operations
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	EMR Measuring and monitoring relays
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RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
SHOCK RESISTANCE	Class 2
LED INDICATOR	Status indication of energized output relay: Yellow LED Status indication of Phase failure: Red, solid light Status indication of Phase sequence fault: Red, flashing light
TYPE	Phase sequence relay
VOLTAGE TYPE	AC

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

Terminal capacities

CONNECTION TYPE	Snap fixing, top-hat rail IEC/EN 60715
TERMINAL CAPACITY	2 x 2.5 mm ² , solid 2 x 2.5 mm ² , (2 x 14 AWG), flexible with ferrule
SCREWDRIVER SIZE	5.5 x 0.8 mm, Terminal screw
TIGHTENING TORQUE	Min. 0.5 Nm, Screw terminals 0.8 Nm, Screw terminals

Power supply

DUTY FACTOR	100 %, Power supply
POWER CONSUMPTION	11 VA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	200 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	500 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	200 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	500 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED FREQUENCY - MIN	50 Hz
RATED FREQUENCY - MAX	60 Hz
SUPPLY VOLTAGE	200 - 500 V AC, 50/60 Hz
VOLTAGE TOLERANCE	0.85 x U _c 1.1 x U _c

Timing cycle

TIMING CYCLE	0.5 % Error within supply voltage (Measuring circuits)
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Measuring circuits

MEASURING CYCLE	500 ms
MONITORING VOLTAGE	200 - 500 V AC, 50/60 Hz (per phase) 200 - 500 V AC
TEMPERATURE ERROR	0.06 %/°C, Measuring circuits

Relay output contacts

NUMBER OF CONTACTS (CHANGE-OVER CONTACTS) 2

NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) 0

NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) 0

LIFESPAN, ELECTRICAL 300,000 Operation (at 230 V, AC-12, 4 A)

RATED OPERATIONAL CURRENT (IE)
2 A at DC-13, 24 V
4 A at AC-12, 230 V
4 A at DC-12, 24 V
3 A at AC-15, 230 V

RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX 250 V

SHORT-CIRCUIT PROTECTION RATING Max. 10 A Fast/gL, Fuse, Relay output contacts

Resurse

BROȘURI [EMR6 - EMT6 - ETR4 brochure](#)

DECLARATIONS OF CONFORMITY [eaton-phase-monitoring-relay-declaration-of-conformity-uk251043en.pdf](#)

DESENE [eaton-current-monitors-emr6-phase-monitoring-relay-dimensions-002.tif](#)

INSTRUCȚIUNI DE INSTALARE [eaton-single-function-3phase-relay-emr6-il121006zu.pdf](#)

NOTE DE APLICAȚIE [easyE4 and EMR6 - the perfect match for safe motor control](#)

SCHEME ELECTRICE [eaton-phase-monitors-emr6-phase-sequence-relay-wiring-diagram.bmp](#)

[eaton-monitoring-device-phase-sequence-relay-wiring-diagram.eps](#)

DENUMIREA PROIECTULUI:

NUMĂRUL PROIECTULUI:

PREGĂTIT DE:

DATA:



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