



Eaton 106172

Eaton Moeller® series CMD Contactor
monitoring device, 220-240VAC

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PRODUCT NAME	Eaton Moeller® series CMD Monitoring relay
CATALOG NUMBER	106172
PRODUCT LENGTH/DEPTH	103 mm
PRODUCT HEIGHT	83 mm
PRODUCT WIDTH	23 mm
PRODUCT WEIGHT	0.138 kg
CERTIFICATIONS	CSA Class No.: 3211-04, 3211-84 (Certified to US Standards) IEC/EN 60947-5-1 CE IEC/EN 60947-4-1 CSA CSA File No.: 012528 CSA-C22.2 No. 14-10 UL 508 UL

10.10 TEMPERATURE RISE

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 SHORT-CIRCUIT RATING

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 ELECTROMAGNETIC COMPATIBILITY

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 MECHANICAL FUNCTION

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.2 CORROSION RESISTANCE

Meets the product standard's requirements.

10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES

Meets the product standard's requirements.

10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT

Meets the product standard's requirements.

10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS

Meets the product standard's requirements.

10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION

Meets the product standard's requirements.

10.2.5 LIFTING

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 MECHANICAL IMPACT

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 INSCRIPTIONS

Meets the product standard's requirements.

10.3 DEGREE OF PROTECTION OF ASSEMBLIES

Does not apply, since the entire switchgear needs to be evaluated.

10.4 CLEARANCES AND CREEPAGE DISTANCES

Meets the product standard's requirements.

10.5 PROTECTION

Does not apply, since the

DECLARATIONS OF CONFORMITY

[eaton-monitoring-relay-declaration-of-conformity-uk251207en.pdf](#)

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[IL04913001Z](#)

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[eaton-timers-contactor-etr4-timing-relay-dimensions.eps](#)

AGAINST ELECTRIC SHOCK	entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	LED indication
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-5 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS, DELAYED SWITCHING)	0
NUMBER OF AUXILIARY	1

CONTACTS (NORMALLY OPEN CONTACTS)	
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS, LEADING)	0
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	220 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
APPLICATION	Contactor relays
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
VOLTAGE TYPE OF OPERATING VOLTAGE	AC
RATED SWITCH CURRENT	0.065 A
OPERATING VOLTAGE AT AC, 50 HZ - MIN	220 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	240 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	220 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	240 V
OPERATING VOLTAGE AT DC - MIN	0 VDC
OPERATING VOLTAGE AT DC - MAX	0 VDC
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
CONNECTION TYPE (AUXILIARY CIRCUIT)	Screw connection
DUTY FACTOR	100 %
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)

	9,000 Operations
MOUNTING METHOD	DIN rail
PICK-UP VOLTAGE	0.85 - 1.1 V DC x Uc 0.85 - 1.1 V AC x Uc
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 60 HZ	4 VA, Coil in a cold state and 1.0 x Us
RATED OPERATIONAL CURRENT (IE)	0.167 A
POWER CONSUMPTION, SEALING, 50 HZ	4 VA, Coil in a cold state and 1.0 x Us
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	250 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	0 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	240 V
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	3.68 W
STRIPPING LENGTH (MAIN CABLE)	6 mm
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.5 - 1.5) mm ² 1 x (0.5 - 2.5) mm ²
SHOCK RESISTANCE	4 g, N/C contacts, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 4 g, N/O contacts, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY	Single 20 - 14, double 20 -

(SOLID/STRANDED AWG)	16
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	2 A gG/gL, 500 V, Max. Fuse, Contacts
TERMINAL CAPACITY (SOLID)	2 x (0.5 - 1.5) mm ² 1 x (0.5 - 2.5) mm ²
TIGHTENING TORQUE	1.2 Nm, Screw terminals

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



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