

Specifications



Eaton 119428

Eaton Moeller® series ETR2 Timing relay, 2W, 0.05s-100h, multi-function, 12-240VAC 50/60Hz, 12-240VDC

General specifications

PRODUCT NAME	Eaton Moeller® series ETR2 Timing relay
CATALOG NUMBER	119428
MODEL CODE	ETR2-69-D
EAN	4015081175741
PRODUCT LENGTH/DEPTH	63 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	17.5 mm
PRODUCT WEIGHT	0.067 kg
CERTIFICATIONS	CSA File No.: UL report valid IEC/EN 60947-5-1 UL UL Category Control No.: NKCR, NKCR7 CSA-22.2 No. 14 UL 508 CE CSA Class No.: 3211-03 IEC/EN 61812-1 UL File No.: E29184 Certified by UL for use in Canada

Climatic environmental conditions

**AMBIENT OPERATING
TEMPERATURE - MAX** 60 °C

**AMBIENT OPERATING
TEMPERATURE - MIN** -25 °C

Design verification

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

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.
HEAT DISSIPATION CAPACITY PDISS	0 W

Electrical rating

MAINS VOLTAGE	12 - 240 V DC
TOLERANCE	12 - 240 V AC (at 50/60 Hz)
NOMINAL CURRENT	3 A
RATED OPERATIONAL CURRENT (IE)	5 A at AC-15, 220 V 230 V 240 V 3 A at 230 V (NO) 0.75 A at 230 V (NC)

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
FUNCTIONS	Delay-on energization Pulse shaping Outputs, reversible delayed/undelayed On-delayed Fleeting contact on energization Pulse forming Flashing, starting with pulse, fixed time Flashing, pause initiating Multi-functional Off-delayed Delay on de-energization Flashing, starting with pause, fixed time Fleeting contact on de-energization Flashing, pulse initiating Adjustable timing function

General information

DEGREE OF PROTECTION	IP20
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	2
PRODUCT CATEGORY	ETR2 timing relays
SUITABLE FOR	DIN rail (top hat rail) mounting
TIME RANGE - MAX	100 s
TIME RANGE - MIN	0.05 s
TYPE	Timer relay
VOLTAGE TYPE	AC/DC

Magnet system

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MIN** 12 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MIN** 12 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MIN** 12 V

Resources

BROCHURES	EMR6 - EMT6 - ETR4 brochure
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-timers-diagram-timing-relay-characteristic-curve-006.eps
	eaton-timers-diagram-etr2-timing-relay-characteristic-curve-002.eps
	eaton-timers-diagram-etr4-timing-relay-characteristic-curve-007.eps
	eaton-timers-diagram-etr2-timing-relay-characteristic-curve.eps
	eaton-timers-diagram-etr4-timing-relay-characteristic-curve-005.eps
	eaton-timers-diagram-etr4-timing-relay-characteristic-curve-004.eps
DECLARATIONS OF CONFORMITY	eaton-timers-diagram-etr4-timing-relay-characteristic-curve-002.eps
	eaton-timers-diagram-etr4-timing-relay-characteristic-curve.eps
	eaton-timing-relay-declaration-of-conformity-eu251563en.pdf
DRAWINGS	eaton-timing-relay-declaration-of-conformity-uk251091en.pdf
	eaton-electronic-timers-timing-relay-etr2-dimensions.eps
ECAD MODEL	eaton-electronic-timers-relay-etr2-timing-relay-3d-drawing.eps
	ETN.119428.edz

INSTALLATION INSTRUCTIONS	eaton-solid-state-timing-relay-etr2-instruction-leaflet-il04910005z.pdf
MCAD MODEL	DA-CS-etr2_11 eaton-timer-relays-mcad-drawings-etr2-69.dwg eaton-timer-relays-mcad-drawings-etr2-11.dwg
WIRING DIAGRAMS	eaton-electronic-timers-relay-etr2-timing-relay-wiring-diagram.eps eaton-electronic-timers-timing-relay-etr2-wiring-diagram-002.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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