

Specifications



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 TOLERANCE	24 - 240 V AC (at 50/60 Hz) 24 - 48 V DC
NOMINAL CURRENT	3 A
RATED OPERATIONAL CURRENT (IE)	3 A at 230 V (NO) 4 A at AC-15, 220 V 230 V 240 V 3 A at 230 V (NC)

Features & functions

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

General information

DEGREE OF PROTECTION	IP20
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	1
PRODUCT CATEGORY	ETR2 timing relays
SUITABLE FOR	DIN rail (top hat rail) mounting
TIME RANGE - MAX	360000 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** 24 V

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

**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

Resources

BROCHURES	EMR6 - EMT6 - ETR4 brochure
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-timers-diagram-etr4-timing-relay-characteristic-curve-004.eps eaton-timers-diagram-etr4-timing-relay-characteristic-curve.eps eaton-timers-diagram-timing-relay-characteristic-curve-006.eps eaton-timers-diagram-etr2-timing-relay-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	eaton-timing-relay-declaration-of-conformity-eu251563en.pdf eaton-timing-relay-declaration-of-conformity-uk251091en.pdf
DRAWINGS	eaton-timers-timing-relay-etr2-dimensions.eps eaton-electronic-timers-timing-relay-etr2-dimensions.eps eaton-timers-timing-relay-etr2-3d-drawing-003.eps
ECAD MODEL	ETN.ETR2-69
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-d.dwg eaton-timer-relays-mcad-drawings-etr2-11.dwg
WIRING DIAGRAMS	eaton-timers-relay-etr2-timing-relay-wiring-diagram.eps eaton-timers-relay-etr2-timing-relay-wiring-diagram-002.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

