Specifications

Eaton 119428

Catalog Number: 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

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

Powering Business Worldwide

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

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 - min

0.05 s

Time range - max

100 s

Type

Timer relay

Voltage type

AC/DC

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

60 °C

Electrical rating

Mains voltage tolerance

12 - 240 V DC
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)

Magnet system

Rated control supply voltage (Us) at AC, 50 Hz - min

12 V

Rated control supply voltage (Us) at AC, 50 Hz - max

240 V

Rated control supply voltage (Us) at AC, 60 Hz - min

12 V

Design verification

Heat dissipation capacity Pdiss

0 W

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.

Rated control supply voltage (Us) at AC, 60 Hz - max

240 V

Rated control supply voltage (Us) at DC - min

12 V

Rated control supply voltage (Us) at DC - max

240 V

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 against electric shock

Does not apply, since the 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.

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.

Resources

Brochures

EMR6 - EMT6 - ETR4 brochure

Catalogs

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Characteristic curve

eaton-timers-diagram-etr4-timing-relay-characteristic-curve.eps

eaton-timers-diagram-etr4-timing-relay-characteristic-curve-007.eps

eaton-timers-diagram-etr2-timing-relay-characteristic-curve-002.eps

eaton-timers-diagram-etr4-timing-relay-characteristic-curve-005.eps

eaton-timers-diagram-etr4-timing-relay-characteristic-curve-002.eps

eaton-timers-diagram-etr4-timing-relay-characteristic-curve-004.eps

eaton-timers-diagram-timing-relay-characteristic-curve-006.eps

eaton-timers-diagram-etr2-timing-relay-characteristic-curve.eps

Declarations of conformity

DA-DC-00004673.pdf

DA-DC-00004675.pdf

Drawings

eaton-electronic-timers-timing-relay-etr2-dimensions.eps

eaton-electronic-timers-relay-etr2-timing-relay-3d-drawing.eps

eCAD model

ETN.119428.edz

Installation instructions

eaton-solid-state-timing-relay-etr2-instruction-leaflet-il04910005z.pdf

mCAD model

DA-CS-etr2_11

DA-CD-etr2_11

DA-CS-etr2_69

DA-CD-etr2_69

Wiring diagrams

eaton-electronic-timers-relay-etr2-timing-relay-wiring-diagram.eps

eaton-electronic-timers-timing-relay-etr2-wiring-diagram-002.eps



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