

# Specifications



## Eaton 119427

Eaton Moeller® series ETR2 Timing relay, 2W, 0.05s-100h, off-delayed, 24-240VAC 50/60Hz, 24-48VDC

### General specifications

|                             |                                                                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series ETR2 Timing relay                                                                                                                                                                                                    |
| <b>CATALOG NUMBER</b>       | 119427                                                                                                                                                                                                                                     |
| <b>MODEL CODE</b>           | ETR2-12-D                                                                                                                                                                                                                                  |
| <b>EAN</b>                  | 4015081175734                                                                                                                                                                                                                              |
| <b>PRODUCT LENGTH/DEPTH</b> | 63 mm                                                                                                                                                                                                                                      |
| <b>PRODUCT HEIGHT</b>       | 80 mm                                                                                                                                                                                                                                      |
| <b>PRODUCT WIDTH</b>        | 17.5 mm                                                                                                                                                                                                                                    |
| <b>PRODUCT WEIGHT</b>       | 0.071 kg                                                                                                                                                                                                                                   |
| <b>CERTIFICATIONS</b>       | CSA-22.2 No. 14<br>IEC/EN 61812-1<br>UL<br>UL File No.: E29184<br>CE<br>CSA Class No.: 3211-03<br>UL Category Control No.: NKCR, NKCR7<br>IEC/EN 60947-5-1<br>Certified by UL for use in Canada<br>CSA File No.: UL report valid<br>UL 508 |

## 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

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                   | entire switchgear needs to be evaluated.                           |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                             |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                          | 0 W                                                                |

## Electrical rating

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| <b>MAINS VOLTAGE TOLERANCE</b>        | 24 - 48 V DC<br>24 - 240 V AC (at 50/60 Hz)                                     |
| <b>NOMINAL CURRENT</b>                | 3 A                                                                             |
| <b>RATED OPERATIONAL CURRENT (IE)</b> | 0.75 A at 230 V (NC)<br>5 A at AC-15, 220 V 230 V<br>240 V<br>3 A at 230 V (NO) |

## General information

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

## Features & functions

|                                 |                                                                  |
|---------------------------------|------------------------------------------------------------------|
| <b>ELECTRIC CONNECTION TYPE</b> | Screw connection                                                 |
| <b>FUNCTIONS</b>                | Off-delayed<br>Fixed timing function<br>Delay on de-energization |

## Magnet system

|                                                             |       |
|-------------------------------------------------------------|-------|
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b> | 240 V |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b> | 24 V  |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b> | 240 V |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 24 V  |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>        | 240 V |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>        | 24 V  |

## Resources

|                            |                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                  | <a href="#">EMR6 - EMT6 - ETR4 brochure</a>                                                                                                                   |
| CATALOGUES                 | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                                        |
| CHARACTERISTIC CURVE       | <a href="#">eaton-timers-diagram-etr4-timing-relay-characteristic-curve-002.eps</a>                                                                           |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-timing-relay-declaration-of-conformity-uk251091en.pdf</a><br><a href="#">eaton-timing-relay-declaration-of-conformity-eu251563en.pdf</a>    |
| DRAWINGS                   | <a href="#">eaton-electronic-timers-timing-relay-etr2-dimensions.eps</a><br><a href="#">eaton-electronic-timers-timing-relay-etr2-3d-drawing.eps</a>          |
| ECAD MODEL                 | <a href="#">ETN.119427.edz</a>                                                                                                                                |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-solid-state-timing-relay-etr2-instruction-leaflet-il04910005z.pdf</a>                                                                       |
| MCAD MODEL                 | <a href="#">DA-CS-etr2 11</a><br><a href="#">eaton-timer-relays-mcad-drawings-etr2-11.dwg</a><br><a href="#">eaton-timer-relays-mcad-drawings-etr2-12.dwg</a> |
| WIRING DIAGRAMS            | <a href="#">eaton-electronic-timers-timing-relay-etr2-wiring-diagram-002.eps</a>                                                                              |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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