



119426  
ETR2-11-D

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as  
per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Characteristics

Dimensions

## DELIVERY PROGRAM

Product range  
ETR2 timing relays

Basic function  
Timer relays

Function  
On-delayed

Fixed timing function

Number of changeover contacts  
2

Time range  
0.05 s - 100 h

Time range  
0.05 - 1 s  
1.5 - 30 s  
5 - 100 s

1.5 - 30 min  
5 - 100 min  
0.5 - 10 h  
5 - 100 h

### Rated operational current [ $I_e$ ]

AC-15  
220 V 230 V 240 V [ $I_e$ ]  
5 A

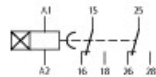
230 V (NO) [ $I_e$ ]  
3 A

230 V (NC) [ $I_e$ ]  
0.75 A

Voltage range [ $U_N$ ]  
24 - 240 V AC, 50/60 Hz  
24 - 48 V DC V

Width  
17.5 mm

Terminal marking according to EN 50042



## TECHNICAL DATA

### Technical data in sheet catalogue

Other technical data (sheet catalogue)  
Timing relays

## DESIGN VERIFICATION AS PER IEC/EN 61439

### Technical data for design verification

Heat dissipation capacity [ $P_{\text{diss}}$ ]

0 W

Operating ambient temperature min.  
-25 °C

Operating ambient temperature max.  
+60 °C

### IEC/EN 61439 design verification

10.2 Strength of materials and parts  
10.2.2 Corrosion resistance  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.3.1 Verification of thermal stability of enclosures  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.3.2 Verification of resistance of insulating materials to normal heat  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.4 Resistance to ultra-violet (UV) radiation  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts  
10.2.6 Mechanical impact  
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts  
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 Insulation properties

##### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9 Insulation properties

##### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9 Insulation properties

##### 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.

## TECHNICAL DATA ETIM 7.0

Relays (EG000019) / Timer relay (EC001439)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Relay and socket / Timed relay (ecl@ss10.0.1-27-37-16-05 [AKF092013])

Type of electric connection  
Screw connection

Function delay-on energization  
Yes

Function delay on de-energization  
No

Function floating contact on energization  
No

Function floating contact on de-energization  
No

Function star-delta  
No

Function pulse shaping  
No

Function flashing, starting with pause, fixed time  
No

Function flashing, starting with pulse, fixed time  
No

Clock function, starting with pause, variable  
No

Clock function, starting with pulse, variable  
No

With plug-in socket  
No

Remote operation possible  
No

Suitable for remote control  
No

Pluggable on auxiliary contact block  
No

Rated control supply voltage  $U_s$  at AC 50HZ  
24 - 240 V

Rated control supply voltage  $U_s$  at AC 60HZ  
24 - 240 V

Rated control supply voltage  $U_s$  at DC  
24 - 240 V

Voltage type for actuating  
AC/DC

Nominal current  
3 A

Time range  
0.05 - 0.05 s

Number of outputs, undelayed, normally closed  
contact  
0

Number of outputs, undelayed, normally open  
contact  
0

Number of outputs, undelayed, change-over  
contact  
0

Number of outputs, delayed, normally closed  
contact  
0

Number of outputs, delayed, normally open contact  
0

Number of outputs, delayed, change-over contact  
2

Outputs, reversible delayed/undelayed  
No

With semiconductor output  
No

Suitable for DIN rail (top hat rail) mounting  
Yes

Suitable for front mounting  
No

Width  
22.5 mm

Height  
78 mm

Depth  
98 mm

## APPROVALS

Product Standards  
IEC/EN 61812-1; IEC/EN 60947-5-1; UL 508; CSA-  
22.2 No. 14; CE marking

UL File No.  
E29184

UL Category Control No.  
NKCR, NKCR7

CSA File No.  
UL report valid

CSA Class No.  
3211-03

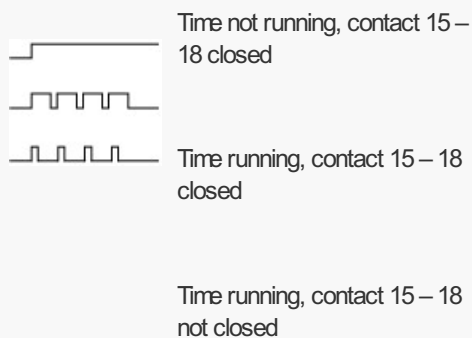
North America Certification  
UL listed, certified by UL for use in Canada

Degree of Protection  
IEC: IP20, UL/CSA Type: -

## CHARACTERISTICS

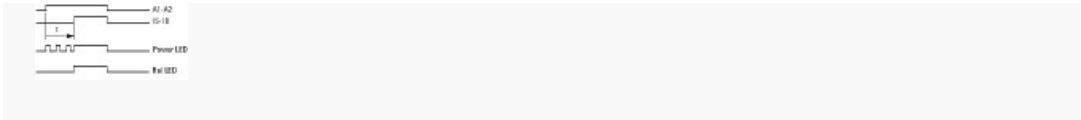
### Flow diagram for timing functions

LED legend



- ☐ A2/A1 linked
- ☐ A2/A1 not linked

11 On-delayed



Technical drawing of a mechanical part showing front and side views with dimensions:

- Front View (Left):** A vertical rectangle with a total height of 30 and a total width of 11.5. The top 5 units and bottom 5 units are shaded gray. The central unshaded section has a height of 20.
- Side View (Right):** A horizontal rectangle with a total width of 40.4 and a total height of 41. The top 5 units and bottom 5 units are shaded gray. The central unshaded section has a height of 31.

