ETR2-42 - Timing relay, 0.05s-100h, 24-240VAC 50/60Hz, 24-48VDC, 1W, flashing

262688 ETR2-42

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Timing relay, 0.05s-100h, 24-240VAC 50/60Hz, 24-48VDC, 1W, flashing

Alternate Catalog No.	ETR2-42
EL-Nummer (Norway)	4110016

ETR2 electronic timing relays, 17.5 mm wide, time range 0.05s-100h, 1 changeover contacts flashing

Delivery program

Product range
ETR2 timing relays
Basic function
Timer relays
Function
Flashing, pulse initiating
Fixed timing function
Number of changeover contacts
1
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-15220 V 230 V 240 V [I_e]
4 A
230 V (NO) [I_e]
3 A
230 V (NC) [I_e]
3 A
Voltage range [U_{LN}]
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_{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 parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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

No
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
Yes
Function flashing, starting with pulse, fixed time
Yes
Clock function, starting with pause, variable
No
Clock function, starting with pulse, variable
No
With plug-in socket
No
Remote operation possible
Yes
Suitable for remote control
No
Pluggable on auxiliary contact block
No
Rated control supply voltage Us at AC 50HZ
24 - 240 V
Rated control supply voltage Us at AC 60HZ
24 - 240 V
Rated control supply voltage Us at DC
24 - 240 V
Voltage type for actuating
AC/DC
Nominal current
3 A
Time range
0.05 - 360000 s
Number of outputs, undelayed, normally closed contact
0
Number of outputs, undelayed, normally open contact
0
Number of outputs, undelayed, change-over contact
1
Number of outputs, delayed, normally closed contact
0
Number of outputs, delayed, normally open contact
0
Number of outputs, delayed, change-over contact
0
Outputs, reversible delayed/undelayed
No
With semiconductor output
No
Suitable for DIN rail (top hat rail) mounting
Yes
Suitable for front mounting
No
Width
18 mm
Height
70 mm
Depth
63 mm

Approvals

Product Standards

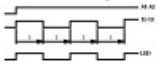
IEC/EN 61812-1; IEC/EN 60947-5-1; UL 508; CSA-22.2 No. 14; CE marking
UL File No.
E29184
UL Category Control No.
NKCR, NKCR7
CSA File No.
UL report valid
CSA Class No.
3211-03
North America Certification
UL listed, certified by UL for use in Canada
Degree of Protection
IEC: IP20, UL/CSA Type: -

Characteristics

Flow diagram for timing functions
LED legend

	Time not running, contact 15 – 18 closed
	Time running, contact 15 – 18 closed
	Time running, contact 15 – 18 not closed
□ A2/A1 linked	
□ A2/A1 not linked	

42 Flashing, pulse initiating



Dimensions

CAD data

- Product-specific CAD data
  (Web)
- 3D Preview
  (Web)

DWG files

- DA-CD-etr2_42
  File
  (Web)

edz files

- DA-CE-ETN.ETR2-42
  File
  (Web)

Step files

- DA-CS-etr2_42
  File
  (Web)

Additional product information

- Terminal marking
  (Web)

- Timing functions
  (Web)
- Load limit curves
  (Web)
- Timing relays
  (Web)

Characteristic curve

- 
  250U007
  Coordinate visualization
  Flow diagram flashing

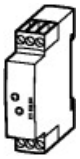
Dimensions single product

- 
  250X006
  Line drawing
  Electronic timing relay

Wiring diagram

- □
  250S006
  Line drawing
  Multifunction relay

3D drawing

- 
  250I026
  Line drawing
  ETR2 electronic timing relay

Instruction Leaflet

- Solid-state timing relay (IL04910005Z)
  Asset
  (PDF, multilingual)

Product photo

- 
  2100PIC-138
  Photo
  Timing relay flashing

Declaration of Conformity

UK

- Electronic timing relay (DA-DC-00003965)
  Asset
  (PDF)

Download-Center

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- Download-Center
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