



Timing relay, 2W, 0.05s-100h, on-delayed, 24-240VAC 50/60Hz, 24-48VDC

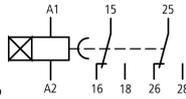
Part no. ETR2-11-D  
 Catalog No. 119426  
 Eaton Catalog No. ETR2-11-D  
 EL-Nummer 4110011  
 (Norway)

**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**

AC-15			
220 V 230 V 240 V	$I_e$	A	5
230 V (N/O)	$I_e$	A	3
230 V (NC)	$I_e$	A	0.75
Voltage range	$U_{LN}$	V	24 - 240 V AC, 50/60 Hz 24 - 48 V DC
Width		mm	17.5



Terminal marking according to EN 50042

**Technical data**

**Technical data in sheet catalogue**

Other technical data (sheet catalogue)			Timing relays
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**Design verification as per IEC/EN 61439**

Technical data for design verification			
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties		
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.

## Technical data ETIM 6.0

Relays (EG000019) / Timer relay (EC001439)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Relay and socket / Timed relay (ecl@ss8.1-27-37-16-05 [AKF092010])			
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 only for remote control			No
Pluggable on auxiliary contact block			No
Rated control supply voltage Us at AC 50HZ		V	24 - 240
Rated control supply voltage Us at AC 60HZ		V	24 - 240
Rated control supply voltage Us at DC		V	24 - 240
Voltage type for actuating			AC/DC
Time range		s	0.05 - 0.05
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
Width		mm	22.5
Height		mm	78
Depth		mm	98

## 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



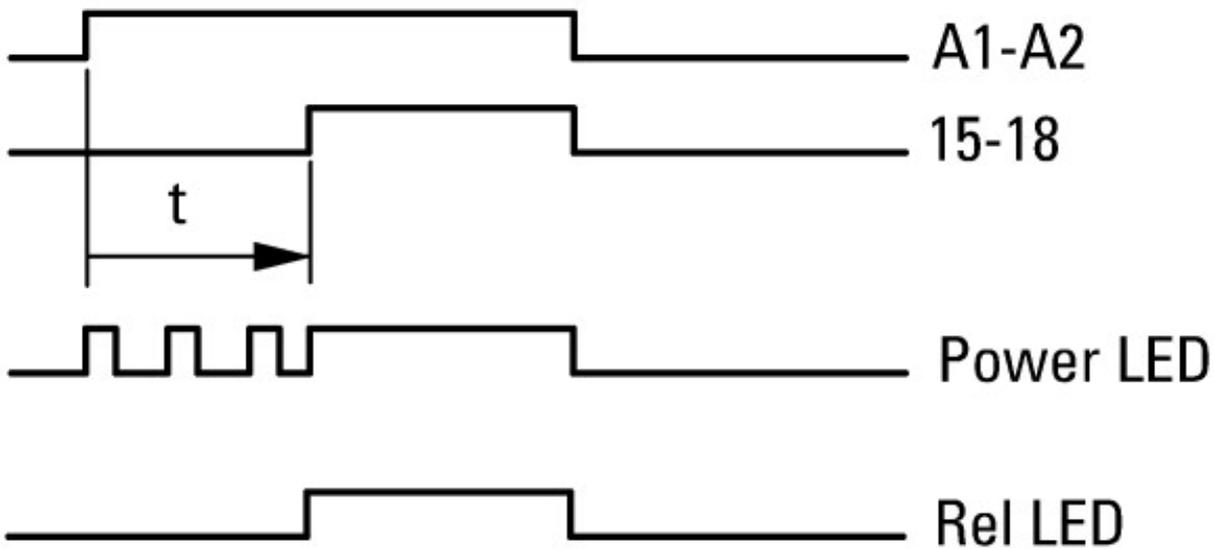
Time running, contact 15 – 18 closed



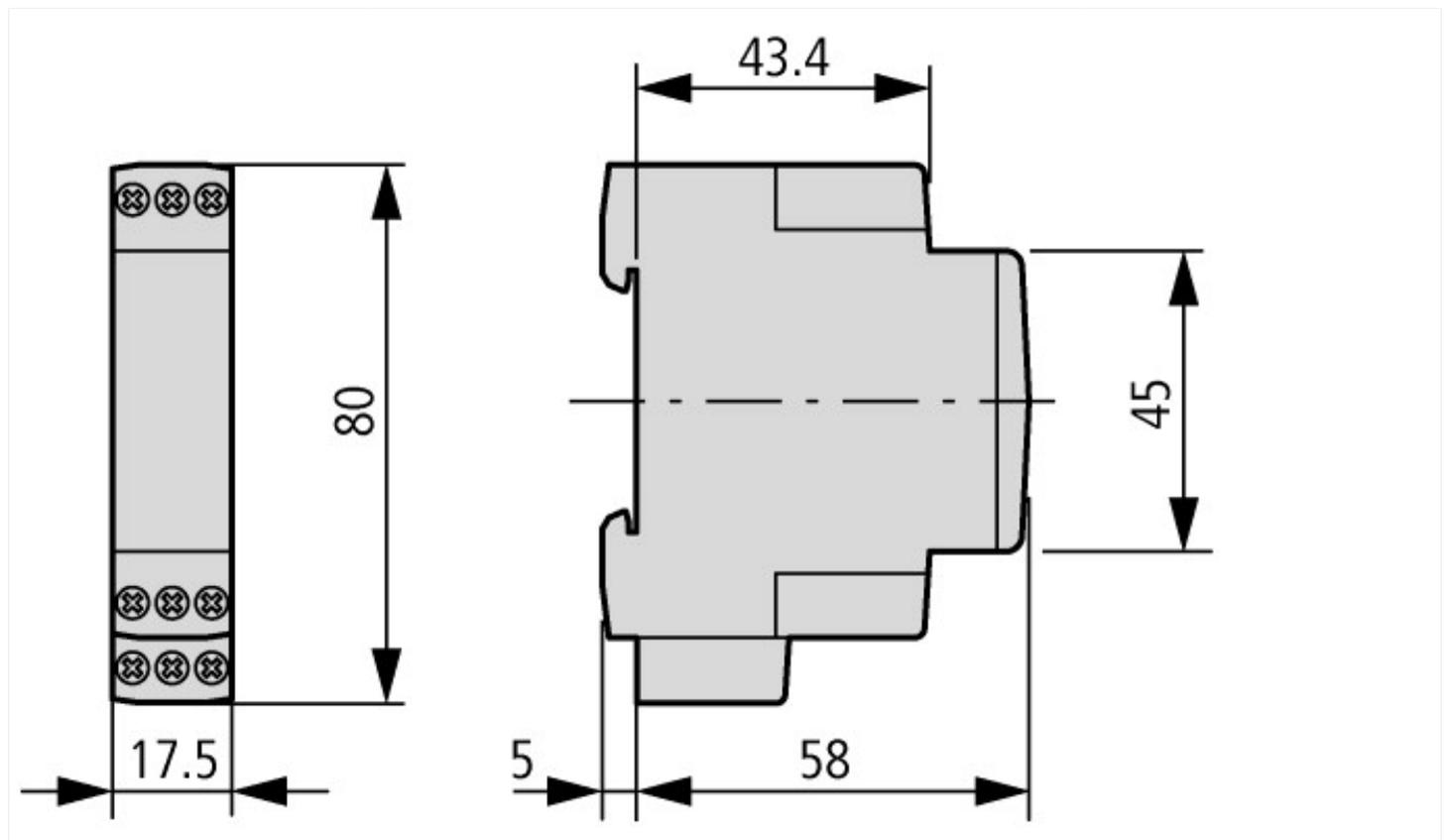
Time running, contact 15 – 18 not closed

- ① A2/A1 linked
- ② A2/A1 not linked

11 On-delayed



## Dimensions



## Additional product information (links)

### IL04910005Z (AWA2527-2372) Solid-state timing relay

IL04910005Z (AWA2527-2372) Solid-state timing relay [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04910005Z2016\\_02.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04910005Z2016_02.pdf)

Terminal marking	<a href="http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.7">http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.7</a>
Timing functions	<a href="http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.8">http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.8</a>
Load limit curves	<a href="http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.10">http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.10</a>
Timing relays	<a href="http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.13">http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=11.13</a>