



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

Part no. ETR2-12
Catalog No. 262686
Eaton Catalog No. ETR2-12
EL-Nummer 0004133315
(Norway)



Powering Business Worldwide™

Delivery program

Product range	ETR2 timing relays		
Basic function	Timer relays		
Function	Off-delayed		
Number of changeover contacts	Fixed timing function		
Time range	1		
Time range	0.05 s - 100 h		
	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	4
230 V (N/O)	I _e	A	3
230 V (NC)	I _e	A	3
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	P _{diss}	W	0
Heat dissipation capacity		°C	-25
Operating ambient temperature min.		°C	60
Operating ambient temperature max.		°C	
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 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 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	Yes	
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 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	
Nominal current	A	3
Time range	s	0.05 - 360000
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	1	
Outputs, reversible delayed/undelayed	No	
With semiconductor output	No	
Suitable for DIN rail (top hat rail) mounting	Yes	
Suitable for front mounting	No	
Width	mm	18
Height	mm	70
Depth	mm	63

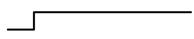
Approvals

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



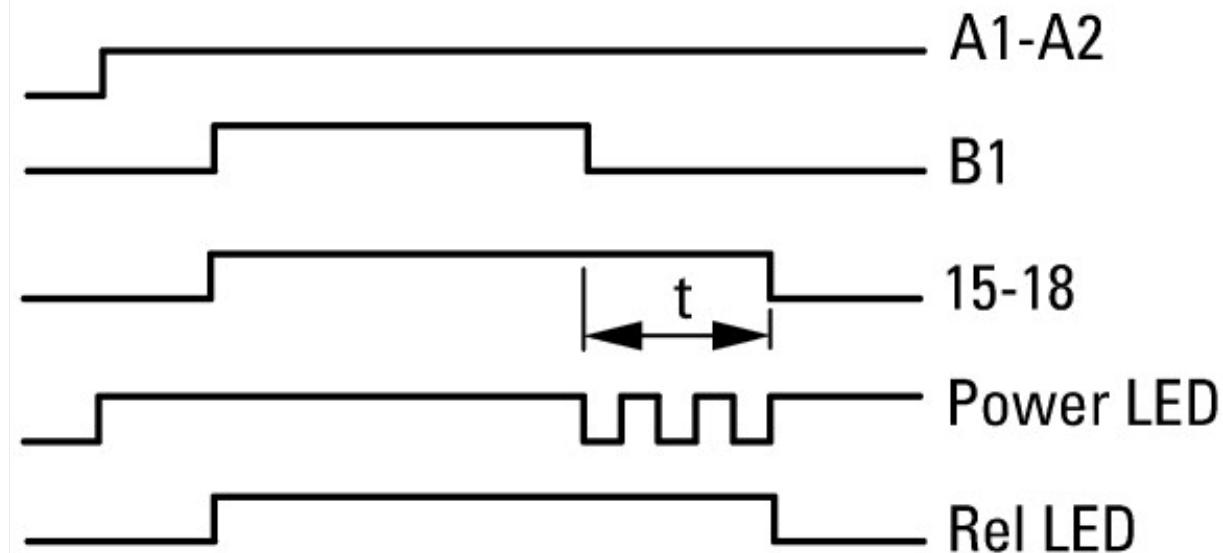
Time running, contact 15 – 18 closed



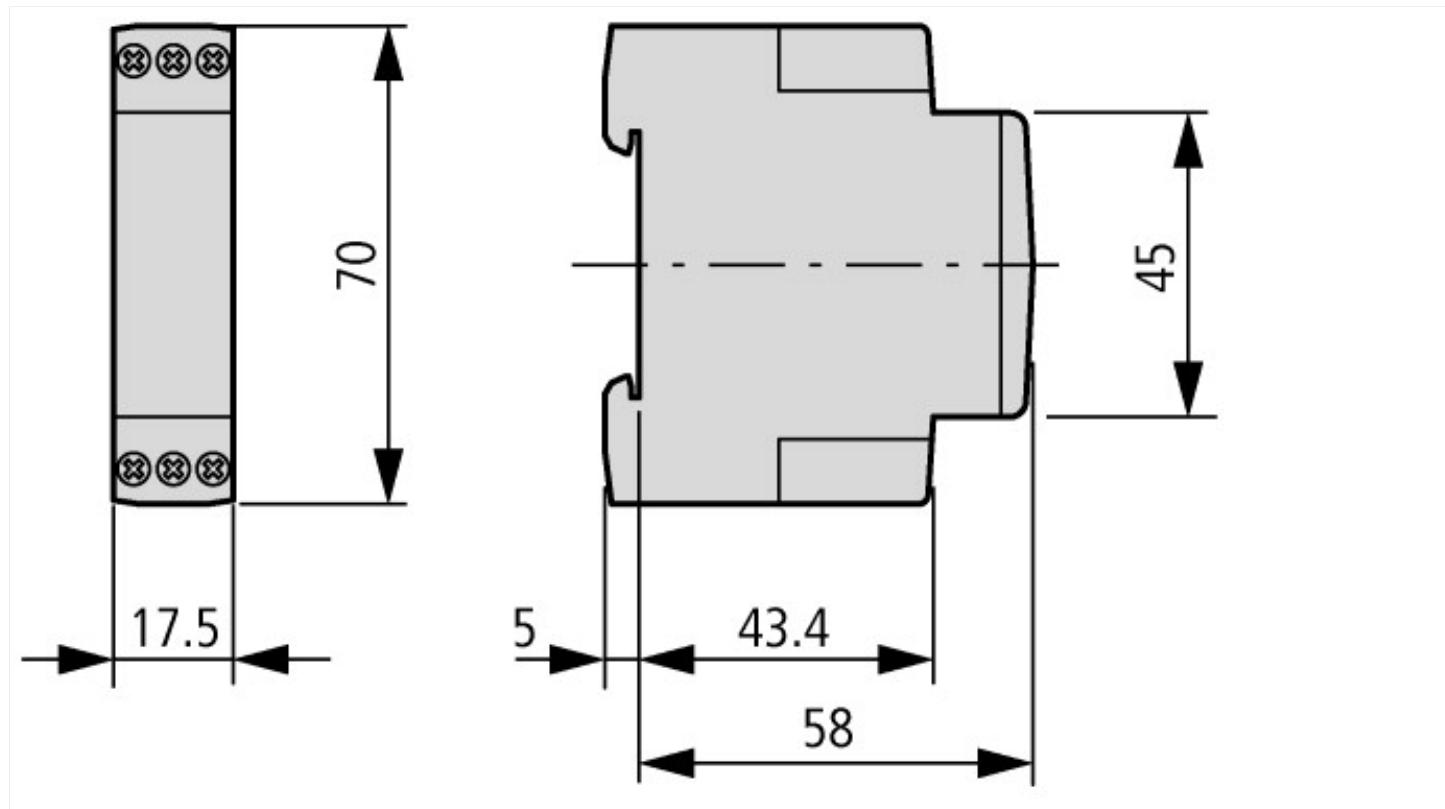
Time running, contact 15 – 18 not closed

- ① A2/A1 linked
- ② A2/A1 not linked

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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/IL04910005Z2018_07.pdf

Terminal marking

<http://ecat.moeller.net/flip-cat?edition=HPLEN&startpage=11.7>

Timing functions

<http://ecat.moeller.net/flip-cat?edition=HPLEN&startpage=11.8>

Load limit curves

<http://ecat.moeller.net/flip-cat?edition=HPLEN&startpage=11.10>

Timing relays

<http://ecat.moeller.net/flip-cat?edition=HPLEN&startpage=11.13>