



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

Part no.

Catalog No.

Alternate Catalog No.

EL-Nummer (Norway)

ETR2-12

262686

ETR2-12

4133315

Delivery program

Product range				ETR2 timing relays
Basic function				Timer relays
Function				Off-delayed
				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				
AC-15				
220 V 230 V 240 V	I <sub>e</sub>	A		4
230 V (N/O)	I <sub>e</sub>	A		3
230 V (NC)	I <sub>e</sub>	A		3
Voltage range	U <sub>LN</sub>	V		24 - 240 V AC, 50/60 Hz 24 - 48 V DC
Width		mm		17.5
<div><div></div><div>Terminal marking according to EN 50042</div></div>				

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 <sub>diss</sub>	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 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: -

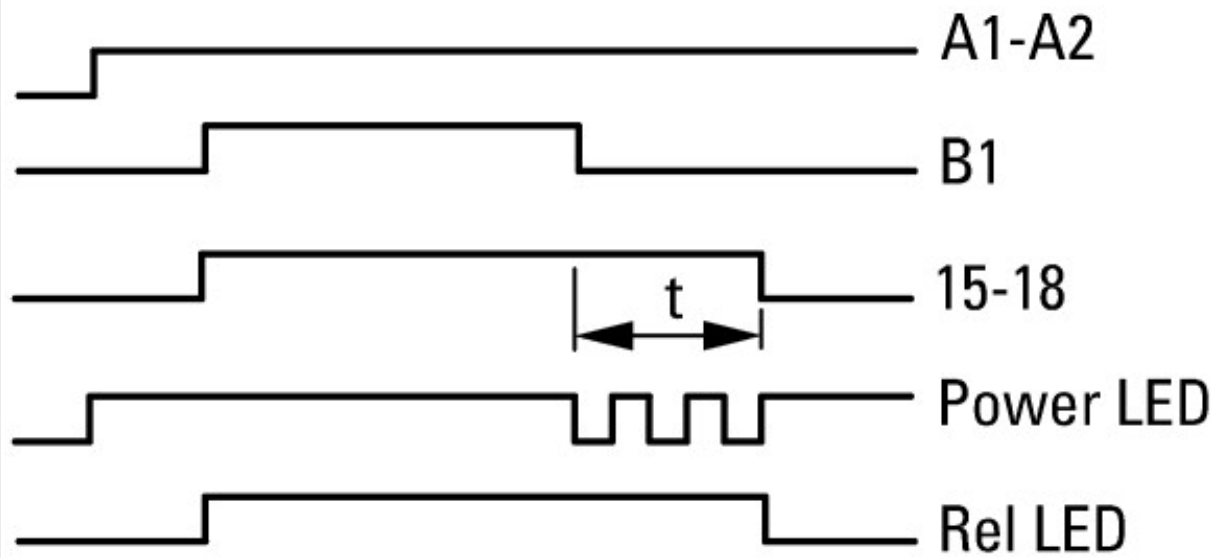
Characteristics

Flow diagram for timing functions

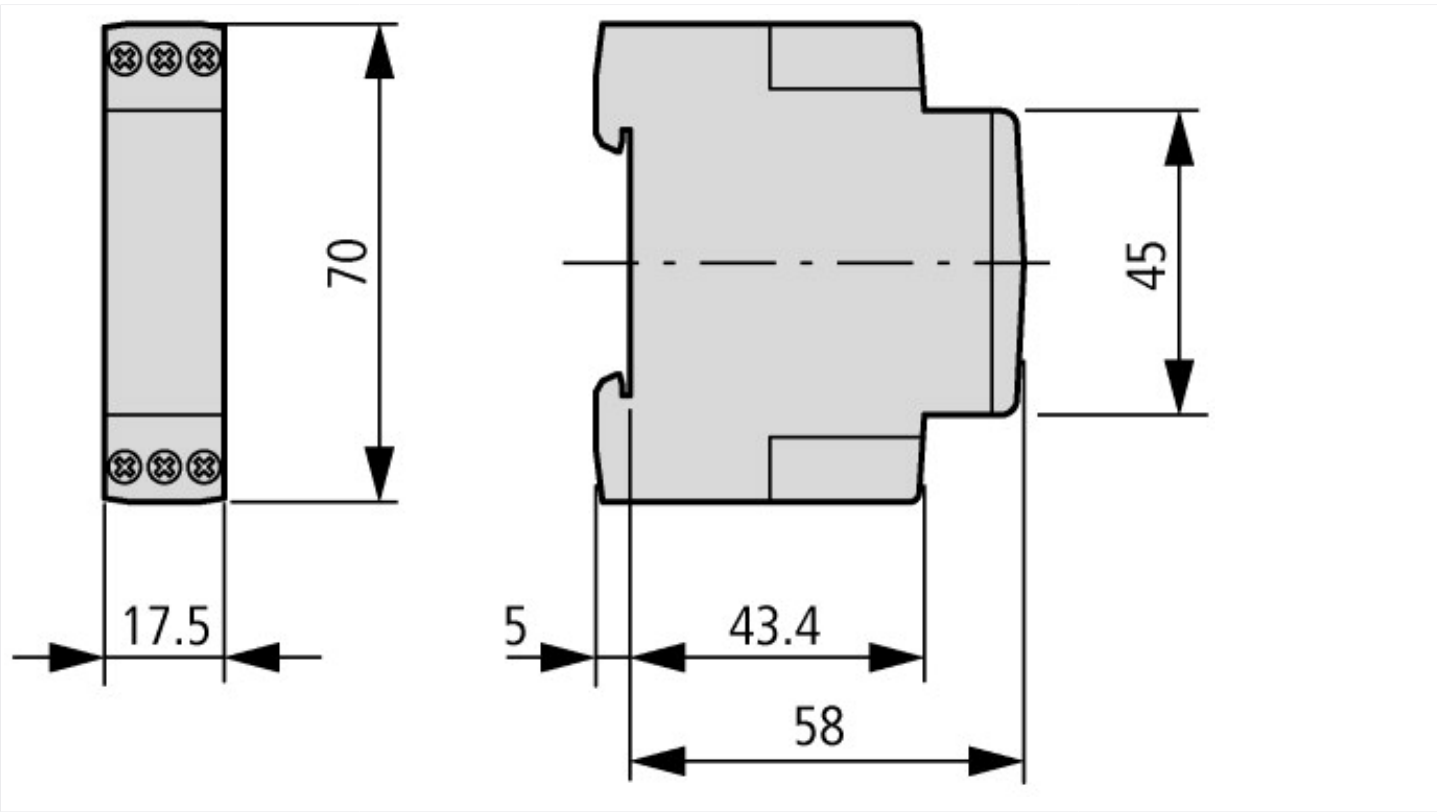
LED legend



12 Off-delayed



Dimensions



Additional product information (links)

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>