DATASHEET - ETR2-44

Timing relay, 0.05s-100h, 24-240VAC 50/60Hz, 24-48VDC, 1W, flashing, 2 times
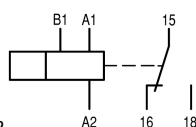
Part no.	ETR2-44
Catalog No.	262730
Eaton Catalog No.	ETR2-44
EL-Nummer (Norway)	0004110017

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Powering Business Worldwide™

Delivery program

Product range			ETR2 timing relays
Basic function			Timer relays
Function			Flashing, pulse initiating Flashing, pause initiating
			Pulse and pause times independently adjustable 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_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

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 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])

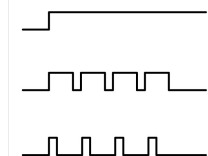|		
Type of electric connection		Screw connection
Function delay-on energization		No
Function delay on de-energization		No
Function floating contact on energization		No
Function floating contact on de-energization		No
Function star-delta		No
Function pulse shaping		No
Function flashing, starting with pause, fixed time		Yes
Function flashing, starting with pulse, fixed time		Yes
Clock function, starting with pause, variable		Yes
Clock function, starting with pulse, variable		Yes
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	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		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	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
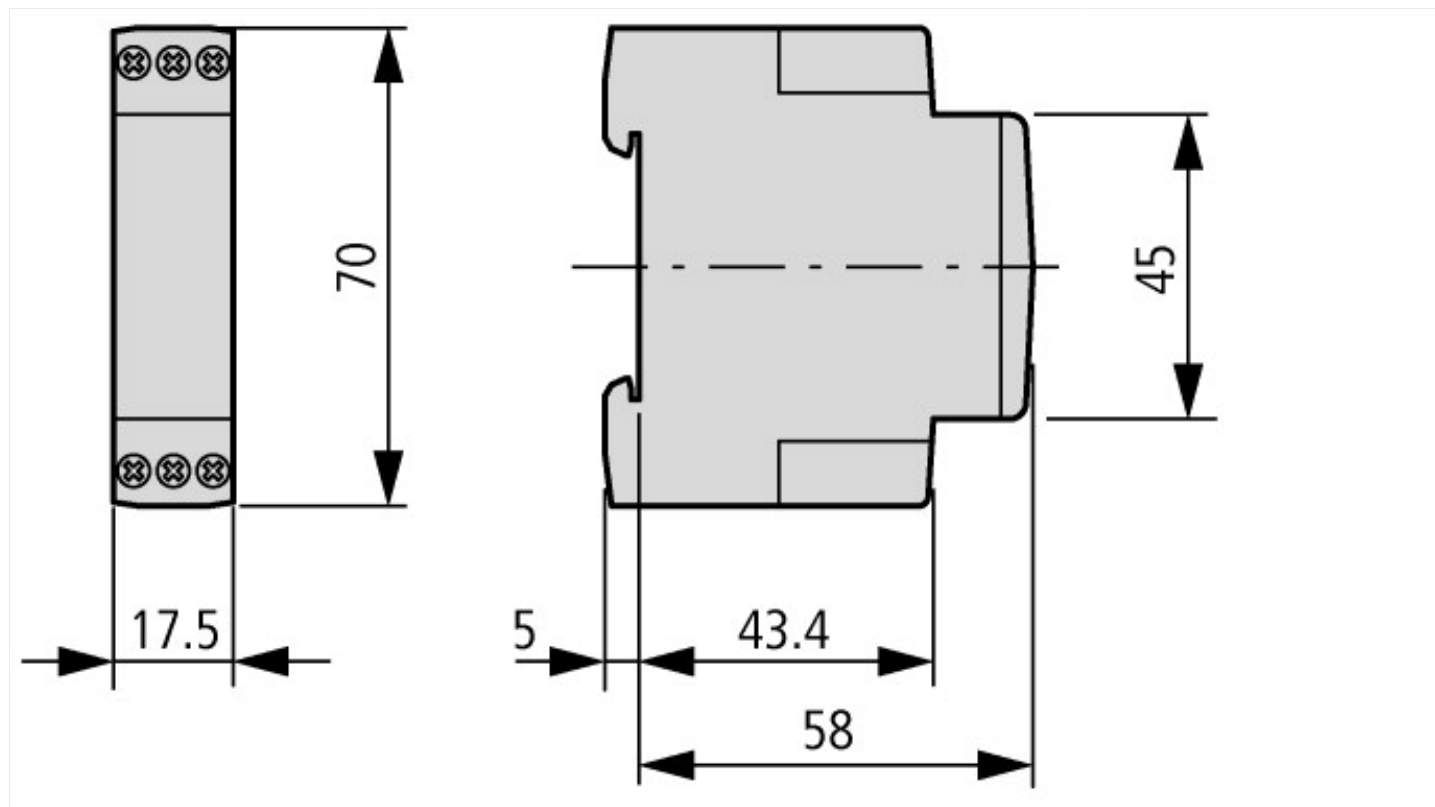
LED legend

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

44 flashing, 2 variable times

Dimensions

17.5 70 5 43.4 58 45

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