DATASHEET - ETR2-44



Timing relay, 0.05s-100h, 24-240VAC 50/60Hz, 24-48VDC, 1W, flashing, 2 $\,$ times

Part no. ETR2-44

262730

EL Number

4110017

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series ETR2 Timing relay
Part no.	ETR2-44
EAN	4015082627300
Product Length/Depth	63 millimetre
Product height	70 millimetre
Product width	17.5 millimetre
Product weight	0.053 kilogram
Certifications	UL Category Control No.: NKCR, NKCR7 CSA-22.2 No. 14 UL 508 UL File No.: E29184 IEC/EN 61812-1 CSA Class No.: 3211-03 CE Certified by UL for use in Canada CSA File No.: UL report valid UL IEC/EN 60947-5-1
Product Tradename	ETR2
Product Type	Timing relay
Product Sub Type	None
Catalog Notes	Package quantity 1
Features & Functions	
Electric connection type	Screw connection
Functions	Pulse and pause times independently adjustable Flashing, pause initiating Flashing, starting with pause, fixed time Clock function, starting with pause, variable Flashing, starting with pulse, fixed time Fixed timing function Flashing, pulse initiating Remote operation possible Clock function, starting with pulse, variable
General information	
Degree of protection	IP20
Number of contacts (change-over contacts)	1
Product category	ETR2 timing relays
Suitable for	DIN rail (top hat rail) mounting
Time range - min	0.05 s
Time range - max	360000 s
Туре	Timer relay
Used with	XC100, XC121, XC200
Voltage type	AC/DC
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Electrical rating	
Mains voltage tolerance	24 - 240 V AC (at 50/60 Hz) 24 - 48 V DC
Nominal current	3 A
Rated operational current (le)	3 A at 230 V (NO) 3 A at 230 V (NC) 4 A at AC-15, 220 V 230 V 240 V
Magnet system	

Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	240 V
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V
Rated control supply voltage (Us) at AC, 60 Hz - max	240 V
Rated control supply voltage (Us) at DC - min	24 V
Rated control supply voltage (Us) at DC - max	240 V
Design verification	
Heat dissipation capacity Pdiss	0 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

Technical data ETHV 5.0					
Relays (EG000019) / Timer relay (EC001439)					
Electric engineering, automation, process control engineering / Low-voltage switch technology / Relay and socket / Timer relay (ecl@ss13-27-37-16-05 [AKF092018])					
Type of electric connection		Screw connection			
Complete with socket		No			
Suitable for DIN rail (top hat rail) mounting		Yes			
Suitable for front mounting		No			
Pluggable on auxiliary contact block		No			
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			
Time range	S	s 0.05 - 360000			
Remote operation possible		Yes			
Suitable as remote control		No			
Rated control supply voltage AC 50 Hz	\	V 24 - 240			
Rated control supply voltage AC 60 Hz	\	V 24 - 240			

Number of outputs, undelayed, normally closed contact 6 Number of outputs, undelayed, normally open contact 6 Number of outputs, undelayed, change-over contact 6 Number of outputs, delayed, normally open contact 6 Number of outputs, delayed, normally open contact 6 Number of outputs, delayed, change-over contact 6 Outputs, reversible delayed/undelayed No With semiconductor output No Material of contact insert No Material of contact surface V Operating voltage AC 50 Hz V Operating voltage AC 60 Hz V Operating voltage DC V Voltage type (operating voltage) K Nominal current A Max. starting current A Degree of protection (IP) F Relay technology category according to IEC 61810-7 mm Width mm 17.5 Height mm 17.5	Rated control supply voltage DC	V	24 - 240
Number of outputs, undelayed, normally open contact 6 Number of outputs, undelayed, change-over contact 6 Number of outputs, delayed, normally open contact 6 Number of outputs, delayed, normally open contact 6 Number of outputs, delayed, change-over contact 6 Outputs, reversible delayed/undelayed 7 With semiconductor output 7 Material of contact unsert 7 Material of contact surface 7 Operating voltage AC 50 Hz 7 Operating voltage AC 60 Hz 7 Voltage type (operating voltage) 7 Voltage type (operating voltage) 7 Nominal current 8 Max. starting current 8 Max. starting current 8 Perge of protection (IP) 8 Relay technology category according to IEC 61810-7 7 Width 7 Height 7	Voltage type for actuating		AC/DC
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Number of outputs, delayed, normally closed contact Number of outputs, delayed, normally open contact Number of outputs, delayed, change-over contact Outputs, reversible delayed/undelayed Outputs, reversible delayed/undelayed With semiconductor output Material of contact insert Material of contact surface Operating voltage AC 50 Hz Operating voltage DC Operating voltage AC 50 Hz Operating voltage DC Operati	Number of outputs, undelayed, normally open contact		0
Number of outputs, delayed, normally open contact Number of outputs, delayed, change-over contact Outputs, reversible delayed/undelayed With semiconductor output Material of contact insert Material of contact surface Operating voltage AC 50 Hz Operating voltage AC 50 Hz Operating voltage DC Voltage type (operating voltage) Non Active delayed, output delayed, or maily open contact Material of contact surface V 24-240 Querating voltage AC 50 Hz V 24-240 Querating voltage AC 50 Hz Voltage type (operating voltage) Noninal current A 3 Max. starting current Degree of protection (IP) Relay technology category according to IEC 61810-7 Width Height Me 3 1.5	Number of outputs, undelayed, change-over contact		0
Number of outputs, delayed, change-over contact Outputs, reversible delayed/undelayed With semiconductor output Material of contact insert Material of contact surface Operating voltage AC 50 Hz Operating voltage AC 60 Hz Operating voltage DC Voltage type (operating voltage) Non Max. starting current Degree of protection (IP) Relay technology category according to IEC 61810-7 Width Height Degree of maximum and m	Number of outputs, delayed, normally closed contact		0
Outputs, reversible delayed/undelayed No With semiconductor output No Material of contact insert Image: Contact insert Material contact Image: Contact surface Operating voltage AC 50 Hz V 24 - 240 Operating voltage AC 60 Hz V 24 - 240 Operating voltage DC V 24 - 48 Voltage type (operating voltage) V AC/DC Nominal current A 3 Max. starting current A 1P20 Relay technology category according to IEC 61810-7 Image: Contact insert Image: Contact insert Width Image: Contact insert Image: Contact insert	Number of outputs, delayed, normally open contact		0
With semiconductor output Material of contact insert Material of contact surface Material of contact surface Operating voltage AC 50 Hz Operating voltage AC 60 Hz Operating voltage DC Voltage type (operating voltage) Nominal current Max. starting current Degree of protection (IP) Relay technology category according to IEC 61810-7 Width Height With semiconductor output Non Max. starting current Molecular Max. starting current Molecular Molec	Number of outputs, delayed, change-over contact		0
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Operating voltage AC 60 Hz Operating voltage DC V 24 - 48 Voltage type (operating voltage) Nominal current A A Degree of protection (IP) Relay technology category according to IEC 61810-7 Width Height A V 24 - 240 AC/DC AC/D	Material of contact surface		
Operating voltage DC Voltage type (operating voltage) Nominal current Nominal current Negree of protection (IP) Relay technology category according to IEC 61810-7 Width Height Nominal current Nominal curren	Operating voltage AC 50 Hz	V	24 - 240
Voltage type (operating voltage) Nominal current A A Max. starting current Degree of protection (IP) Relay technology category according to IEC 61810-7 Width Height AC/DC AC/	Operating voltage AC 60 Hz	V	24 - 240
Nominal currentA3Max. starting currentAADegree of protection (IP)IP20Relay technology category according to IEC 61810-7IP20WidthIP30HeightIP30T.5T.7T.7T.7T.7T.7T.7T.7T.7T.7T.7T.7T.7T.7 <td>Operating voltage DC</td> <td>V</td> <td>24 - 48</td>	Operating voltage DC	V	24 - 48
Max. starting current Degree of protection (IP) Relay technology category according to IEC 61810-7 Width Midth Midth	Voltage type (operating voltage)		AC/DC
Degree of protection (IP) Relay technology category according to IEC 61810-7 Width Height To be protection (IP) IP20	Nominal current	Α	3
Relay technology category according to IEC 61810-7 Width mm 17.5 Height 70	Max. starting current	Α	
Widthmm17.5Heightmm70	Degree of protection (IP)		IP20
Height nm 70	Relay technology category according to IEC 61810-7		
	Width	mm	17.5
Depth mm 63	Height	mm	70
	Depth	mm	63