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 (Norway)	**4110017**	

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		CE Certified by UL for use in Canada UL IEC/EN 60947-5-1 UL Category Control No.: NKCR, NKCR7 UL File No.: E29184 CSA-22.2 No. 14 CSA File No.: UL report valid UL 508 IEC/EN 61812-1 CSA Class No.: 3211-03
Product Tradename		ETR2
Product Type		Timing relay
Product Sub Type		None
Catalog Notes		Package quantity 1

Features & Functions

Electric connection type		Screw connection
Functions		Clock function, starting with pulse, variable Remote operation possible Flashing, pulse initiating Fixed timing function Flashing, starting with pulse, fixed time Clock function, starting with pause, variable Flashing, starting with pause, fixed time Flashing, pause initiating Pulse and pause times independently adjustable

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
Type		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 - 48 V DC 24 - 240 V AC (at 50/60 Hz)
Nominal current		3 A
Rated operational current (Ie)		4 A at AC-15, 220 V 230 V 240 V 3 A at 230 V (NC) 3 A at 230 V (NO)

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

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	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

Rated control supply voltage DC		V	24 - 240
Voltage type for actuating			AC/DC
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
Material of contact insert			
Material contact			
Material of 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)			AC/DC
Nominal current		A	3
Max. starting current		A	
Degree of protection (IP)			IP20
Relay technology category according to IEC 61810-7			
Width		mm	17.5
Height		mm	70
Depth		mm	63