

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

**Part no.** ETR2-12  
**262686**

**EL Number**  
**(Norway)** 4133315

<b>General specifications</b>	
Product name	Eaton Moeller® series ETR2 Timing relay
Part no.	ETR2-12
EAN	4015082626860
Product Length/Depth	63 millimetre
Product height	70 millimetre
Product width	17.5 millimetre
Product weight	0.053 kilogram
Certifications	UL IEC/EN 61812-1 CSA File No.: UL report valid UL Category Control No.: NKCR, NKCR7 CSA Class No.: 3211-03 UL File No.: E29184 Certified by UL for use in Canada UL 508 IEC/EN 60947-5-1 CE CSA-22.2 No. 14
Product Tradename	ETR2
Product Type	Timing relay
Product Sub Type	None
<b>Features &amp; Functions</b>	
Electric connection type	Screw connection
Functions	Fixed timing function Delay on de-energization Off-delayed
<b>General information</b>	
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
Voltage type	AC/DC
<b>Climatic environmental conditions</b>	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
<b>Electrical rating</b>	
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)
<b>Magnet system</b>	
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		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
Time range	s	0.05 - 360000
Remote operation possible		No
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			1
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