DATASHEET - ETR2-21

Timing relay, 0.05s-100h, 24-240VAC 50/60Hz, 24-48VDC, 1W, fleeting contact on energization

Powering Business Worldwide

Part no.	**ETR2-21**
	262687
EL Number (Norway)	**4110015**

General specifications

Product name	Eaton Moeller® series ETR2 Timing relay
Part no.	ETR2-21
EAN	4015082626877
Product Length/Depth	63 millimetre
Product height	70 millimetre
Product width	17.5 millimetre
Product weight	0.05 kilogram
Certifications	IEC/EN 61812-1 CSA File No.: UL report valid UL 508 CE IEC/EN 60947-5-1 UL Category Control No.: NKCR, NKCR7 CSA Class No.: 3211-03 UL File No.: E29184 CSA-22.2 No. 14 Certified by UL for use in Canada UL
Product Tradename	ETR2
Product Type	Timing relay
Product Sub Type	None

Features & Functions

Electric connection type	Screw connection
Functions	Fixed timing function Fleeting contact on energization

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
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 (Ie)	3 A at 230 V (NC) 3 A at 230 V (NO) 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

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			Yes
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			1
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