

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

Part no. ETR2-69
262689
EL Number 4134200
(Norway)

| General specifications | |
|---|--|
| Product name | Eaton Moeller® series ETR2 Timing relay |
| Part no. | ETR2-69 |
| EAN | 4015082626891 |
| Product Length/Depth | 63 millimetre |
| Product height | 70 millimetre |
| Product width | 17.5 millimetre |
| Product weight | 0.054 kilogram |
| Certifications | CE UL IEC/EN 60947-5-1 CSA Class No.: 3211-03 UL 508 UL Category Control No.: NKCR, NKCR7 CSA-22.2 No. 14 UL File No.: E29184 CSA File No.: UL report valid Certified by UL for use in Canada IEC/EN 61812-1 |
| Product Tradename | ETR2 |
| Product Type | Timing relay |
| Product Sub Type | None |
| Features & Functions | |
| Electric connection type | Screw connection |
| Functions | Off-delayed Fleeting contact on de-energization Flashing, pause initiating Pulse shaping Flashing, starting with pause, fixed time Flashing, starting with pulse, fixed time Flashing, pulse initiating Delay on de-energization Multi-functional Adjustable timing function Delay-on energization Fleeting contact on energization Outputs, reversible delayed/undelayed Pulse forming On-delayed |
| 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 (I _e) | 3 A at 230 V (NO) 4 A at AC-15, 220 V 230 V 240 V 3 A at 230 V (NC) |

| Magnet system | | |
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| 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

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| 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 | | Yes |
| Function delay on de-energization | | Yes |
| Function floating contact on energization | | Yes |
| Function floating contact on de-energization | | Yes |
| Function star-delta | | No |
| Function pulse shaping | | Yes |
| Function flashing, starting with pause, fixed time | | Yes |
| Function flashing, starting with pulse, fixed time | | Yes |
| 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 |

| | | |
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| 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 | | Yes |
| 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 |