

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)

|   |  |  |
|---|--|--|
| 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<br>CSA-22.2 No. 14<br>UL 508<br>UL File No.: E29184<br>IEC/EN 61812-1<br>CSA Class No.: 3211-03<br>CE<br>Certified by UL for use in Canada<br>CSA File No.: UL report valid<br>UL<br>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<br>Flashing, pause initiating<br>Flashing, starting with pause, fixed time<br>Clock function, starting with pause, variable<br>Flashing, starting with pulse, fixed time<br>Fixed timing function<br>Flashing, pulse initiating<br>Remote operation possible<br>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   |
| 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 - 240 V AC (at 50/60 Hz)<br>24 - 48 V DC  |
| Nominal current                           |  | 3 A  |
| Rated operational current (Ie)            |  | 3 A at 230 V (NO)<br>3 A at 230 V (NC)<br>4 A at AC-15, 220 V 230 V 240 V  |
| 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  |   | 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       |