



Timing relay, 0.05s-100h, 24-240VAC 50/60Hz, 24-48VDC, 1W, flashing, 2 times

Part no. ETR2-44
Article no. 262730
Catalog No. ETR2-44

Delivery programme

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|--|----------|----|--|---|
| Product range | | | | ETR2 timing relays |
| Basic function | | | | Timer relays |
| Function | | | | Flashing, pulse initiating Flashing, pause initiating |
| | | | | Pulse and pause times independently adjustable Fixed timing function |
| Number of changeover contacts | | | | 1 |
| Time range | | | | 0.05 s - 100 h |
| Time range | | | | 0.05 - 1 s 1.5 - 30 s 5 - 100 s 1.5 - 30 min 5 - 100 min 0.5 - 10 h 5 - 100 h |
| Rated operational current | | | | |
| AC-15 | | | | |
| 220 V 230 V 240 V | I_e | A | | 4 |
| 230 V (N/O) | I_e | A | | 3 |
| 230 V (NC) | I_e | A | | 3 |
| Voltage range | U_{LN} | V | | 24 - 240 V AC, 50/60 Hz 24 - 48 V DC |
| Width | | mm | | 17.5 |
| | | | | |
| Terminal marking according to EN 50042 | | | | |

Technical data

Technical data in sheet catalogue

| | | | | |
|--|--|--|--|---------------|
| Other technical data (sheet catalogue) | | | | Timing relays |
|--|--|--|--|---------------|

Design verification as per IEC/EN 61439

| | | | | |
|--|------------|----|--|-----|
| Technical data for design verification | | | | |
| Heat dissipation capacity | P_{diss} | W | | 0 |
| Operating ambient temperature min. | | °C | | -25 |
| Operating ambient temperature max. | | °C | | 60 |
| IEC/EN 61439 design verification | | | | |
| 10.2 Strength of materials and parts | | | | |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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. | | | | |

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| 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 Insulation properties | | |
| 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 6.0

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| Relays (EG000019) / Timer relay (EC001439) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Relay and socket / Timed relay (ec1@ss8.1-27-37-16-05 [AKF092010]) | | | |
| Type of electric connection | | | Screw connection |
| 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 |
| With plug-in socket | | | No |
| Remote operation possible | | | Yes |
| Suitable only for remote control | | | No |
| Pluggable on auxiliary contact block | | | No |
| Rated control supply voltage Us at AC 50HZ | | V | 24 - 240 |
| Rated control supply voltage Us at AC 60HZ | | V | 24 - 240 |
| Rated control supply voltage Us at DC | | V | 24 - 240 |
| Voltage type for actuating | | | AC/DC |
| Time range | | s | 0.05 - 360000 |
| 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 |
| Width | | mm | 18 |
| Height | | mm | 70 |
| Depth | | mm | 63 |

Approvals

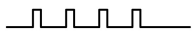
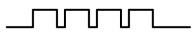
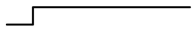
| | | |
|--|--|---|
| | | IEC/EN 61812-1; IEC/EN 60947-5-1; UL 508; CSA-22.2 No. 14; CE marking |
| | | E29184 |

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| | | NKCR, NKCR7 |
| | | UL report valid |
| | | 3211-03 |
| | | UL listed, certified by UL for use in Canada |
| | | IEC: IP20, UL/CSA Type: - |

Characteristics

Flow diagram for timing functions

LED legend



Time not running, contact 15 – 18 closed

Time running, contact 15 – 18 closed

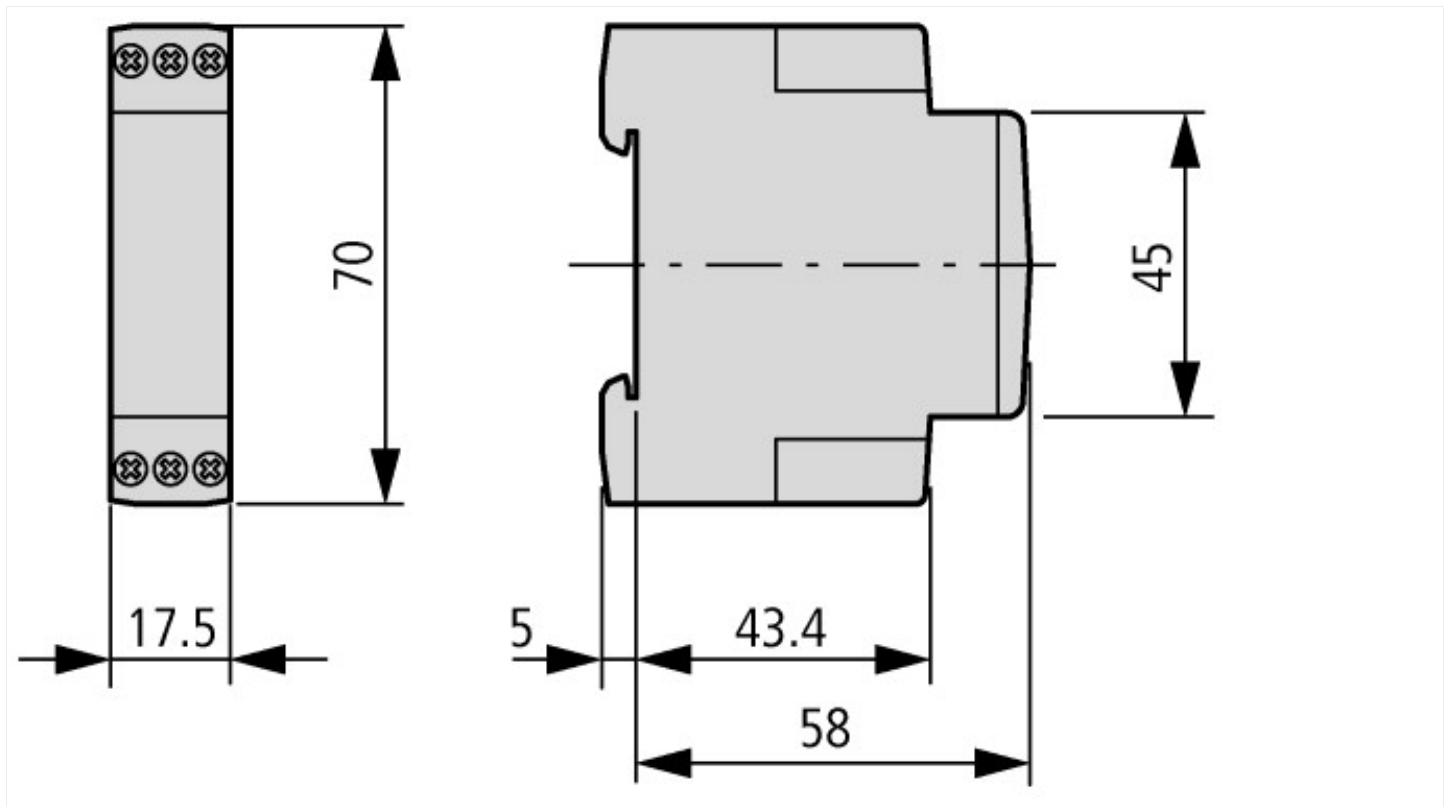
Time running, contact 15 – 18 not closed

① A2/A1 linked

② A2/A1 not linked

44 flashing, 2 variable times

Dimensions



Additional product information (links)

IL04910005Z (AWA2527-2372) Solid-state timing relay

| | |
|---|---|
| IL04910005Z (AWA2527-2372) Solid-state timing relay | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04910005Z2016_02.pdf |
| Terminal marking | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.7 |
| Timing functions | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.8 |
| Load limit curves | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.10 |
| Timing relays | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.13 |