

Timing relay, 2W, 0.05s-100h, off-delayed, 24-240VAC 50/60Hz, 24-48VDC

Powering Business Worldwide*

Part no. ETR2-12-D Article no. 119427 Catalog No. ETR2-12-D

Delivery program

| Product range | | | ETR2 timing relays |
|-------------------------------|----------------|----|---|
| Basic function | | | Timer relays |
| Function | | | Off-delayed |
| | | | Fixed timing function |
| Number of changeover contacts | | | 2 |
| 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 | Α | 5 |
| 230 V (N/O) | l _e | Α | 3 |
| 230 V (NC) | I _e | Α | 0.75 |
| Voltage range | U_LN | V | 24 - 240 V AC, 50/60 Hz 24 - 48 V DC |
| Width | | mm | 17.5 |



Technical data

Technical data in sheet catalogue

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

Design verification as per IEC/EN 61439

| Heat dissipation capacity P _{diss} W 0 Operating ambient temperature min. °C °C 60 | | | | |
|---|--|-------------------|----|--|
| Operating ambient temperature min. Operating ambient temperature max. CC 60 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 I Verification of thermal stability of enclosures 10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES Operating ambient temperature min. °C -25 60 Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. | Technical data for design verification | | | |
| Operating ambient temperature max. Operating ambient temperature max. IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. | Heat dissipation capacity | P _{diss} | W | 0 |
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| 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 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. 10.2.7 Inscriptions Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 10.3 Degree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. | Operating ambient temperature max. | | °C | 60 |
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| | 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.4 Clearances and creepage distances 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 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

| Relays (EG000019) / Timer relay (EC001439) | | | |
|---|------------------------|-----------|--|
| Electric engineering, automation, process control engineering / Low-voltage | ge switch technology / | Relay and | socket / Timed relay (ecl@ss8.1-27-37-16-05 [AKF092010]) |
| Type of electric connection | | | Screw connection |
| 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 |
| With plug-in socket | | | No |
| Remote operation possible | | | No |
| 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 - 0.05 |
| 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 | | | 2 |
| Outputs, reversible delayed/undelayed | | | No |
| With semiconductor output | | | No |
| Width | | mm | 22.5 |
| Height | | mm | 78 |
| Depth | | mm | 98 |

Approvals

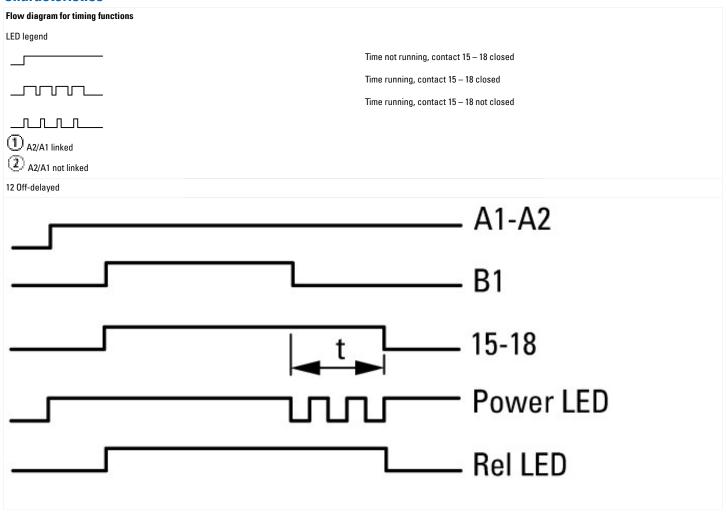
| Product Standards | IEC/EN 61812-1; IEC/EN 60947-5-1; UL 508; CSA-22.2 No. 14; CE marking |
|-------------------------|---|
| UL File No. | E29184 |
| UL Category Control No. | NKCR, NKCR7 |
| CSA File No. | UL report valid |

CSA Class No. 3211-03

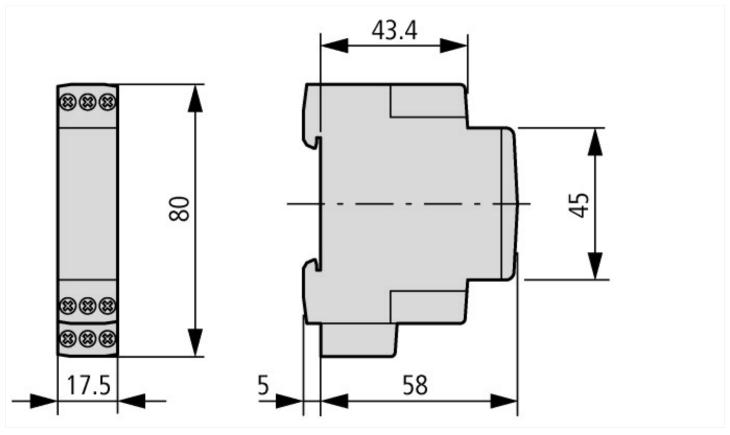
North America Certification UL listed, certified by UL for use in Canada

Degree of Protection IEC: IP20, UL/CSA Type: -

Characteristics



Dimensions



Additional product information (links)

| The state of the s | | |
|--|---|--|
| 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 | |