


Timer module, 100-130VAC, 1-30s, star-delta
Part no. DILM32-XTEY20(RAC130)
Catalog No. 101447
Alternate Catalog No. XTCEXTEYC20A

Delivery program

| | | |
|------------------|--|---|
| Product range | | Accessories |
| Accessories | | Timer modules |
| Description | | For star-delta applications Cannot be combined with top mounting auxiliary contacts Incl. suppressor circuits |
| U _S | | 100 - 130 V AC 50/60 Hz |
| Time range | | Changeover time 1 - 30 s Changeover delay 50 ms |
| For use with | | DILM7 - DILM38 DILMP20 DILMP32-DILMP45 DILA DILMF7 DILMF11 DILMF14 DILMF25 DILMF32 |
| Contact sequence | | |

Technical data

General

| | | |
|---|-----------------|--|
| Standards | | DIN EN 61812, IEC/EN 60947, VDE 0660, UL, CSA |
| Lifespan, mechanical | | |
| AC operated | Operations | x 10 ⁶ 3 |
| DC operated | Operations | x 10 ⁶ 3 |
| Climatic proofing | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | |
| Open | °C | -25 - +60 |
| Enclosed | °C | - 25 - 40 |
| Storage | °C | - 40 - 80 |
| Mounting position | | As required, except suspended |
| Mechanical shock resistance (IEC/EN 60068-2-27) | | |
| Half-sinusoidal shock, 10 ms | | |
| N/O contact | g | 6 |
| N/C contact | g | 6 |
| Degree of Protection | | IP20 |
| Protection against direct contact when actuated from front (EN 50274) | | Finger and back-of-hand proof |
| Weight | kg | 0.08 |
| Terminal capacities | mm ² | |
| Solid | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 1.5) |
| Flexible with ferrule | mm ² | 1 x (0.75 - 1.5) 2 x (0.75 - 1.5) |
| Solid or stranded | AWG | 18 - 14 |
| Terminal screw | | M3.5 |
| Pozidriv screwdriver | Size | 2 |
| Standard screwdriver | mm | 0.8 x 5.5 |

| | | | |
|---------------------------------------|-----------|---------|-------|
| | | | 1 x 6 |
| Max. tightening torque | | Nm | 1.2 |
| Contacts | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 |
| Overtoltage category/pollution degree | | | III/3 |
| Rated insulation voltage | U_i | V AC | 250 |
| Rated operational voltage | U_e | V | 250 |
| Rated operational current | I_e | A | |
| AC-15 | | | |
| 220 V 230 V 240 V | I_e | A | 3 |
| DC-13 | | | |
| DC-13 L/R - 15 ms | | | |
| Contacts in series: | | A | |
| 1 | 24 V | A | 1 |
| 1 | 60 V | A | 0.2 |
| 1 | 110 V | A | 0.2 |
| 1 | 220 V | A | 0.1 |
| DC L/R \leq 50 ms | | | |
| Contacts in series: | | A | |
| 1 | 24 V | A | 1 |
| 1 | 60 V | A | 0.2 |
| 1 | 110 V | A | 0.2 |
| 1 | 220 V | A | 0.1 |
| DC-13 L/R - 300 ms | | | |
| Contacts in series: | | A | |
| 1 | 24 V | A | 1 |
| 1 | 60 V | A | 0.2 |
| 1 | 110 V | A | 0.2 |
| 1 | 220 V | A | 0.1 |
| Safe isolation to EN 61140 | | | |
| between coil and auxiliary contacts | | V AC | 250 |
| between the auxiliary contacts | | V AC | 250 |
| Conventional thermal current | I_{th} | A | 4 |
| Short-circuit rating without welding | | | |
| max. fuse | | A gG/gL | 4 |

Magnet systems

| | | | |
|--|-----------|---------|------------|
| Voltage tolerance | | | |
| Pick-up voltage | | $x U_s$ | |
| AC operated | | V AC | |
| | Pick-up | $x U_c$ | 0.85 - 1.1 |
| DC operated | Pick-up | $x U_c$ | |
| | Pick-up | $x U_c$ | 0.7 - 1.2 |
| Power consumption | | | |
| 60 °C | Sealing | VA | 2 |
| AC operated | Sealing | W | 1.8 |
| duty factor | | % DF | 100 |
| Maximum operating frequency | | | |
| Max. operating frequency | | Ops/h | 3600 |
| Can be combined with auxiliary contact | | Ops/h | 360 |
| Conventional thermal current $I_{th} = I_e$ AC-1 | | | |
| On-delayed | | ms | < 50 |
| Off-delayed | | ms | < 200 |
| AC operated 50 Hz | Deviation | % | < 5 |
| Recovery time (after 100% time delay) | | ms | 70 |
| contact changeover time | | | |

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|-----------------------------|-------|----|----|
| DILM32-XTEE11/DILM32-XTED11 | t_u | ms | 10 |
| DILM32-XTEY20 | t_u | ms | 50 |

Notes

Notes For rated operational current: Making and breaking conditions to DC-13, L/R constant as stated
 Max. fuses for short-circuit protection: Transparent overlay "Fuses" for time/current characteristics (please enquire)
 For pick-up voltage, DC operated: Pure DC, AC bridge rectifier or smoothed double-wave rectification.

Rating data for approved types

| | | | |
|------------------------------|--|------|-----------------|
| Auxiliary contacts | | | |
| Pilot Duty | | | |
| AC operated | | | B300 |
| DC operated | | | R300 |
| General Use | | | |
| AC | | V | 240 |
| AC | | A | 5 |
| DC | | V | 24 |
| DC | | A | 5 |
| Short Circuit Current Rating | | SCCR | |
| Basic Rating | | | |
| SCCR | | kA | 5 |
| max. Fuse | | A | 125 |
| max. CB | | A | 125 |
| 480 V High Fault | | | |
| SCCR (fuse) | | kA | 10/100 |
| max. Fuse | | A | 125/70 Class J |
| SCCR (CB) | | kA | 10/65 |
| max. CB | | A | 50/32 |
| 600 V High Fault | | | |
| SCCR (fuse) | | kA | 10/100 |
| max. Fuse | | A | 125/125 Class J |
| SCCR (CB) | | kA | 10/22 |
| max. CB | | A | 50/32 |

Design verification as per IEC/EN 61439

| | | | |
|--|------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 0 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 1.8 |
| 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. |
| 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. |

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| 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. |

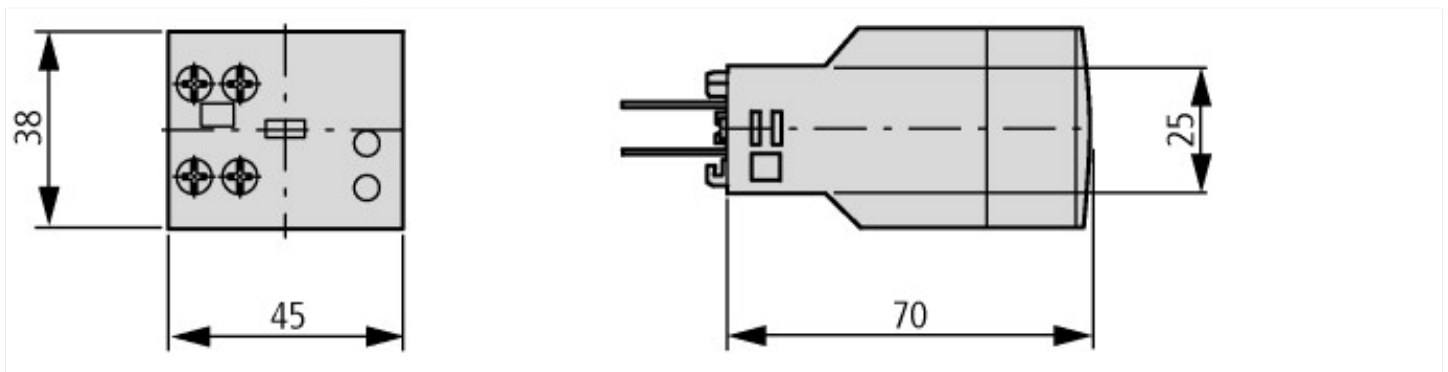
Technical data ETIM 7.0

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|--|---|------------|
| Relays (EG000019) / Timer block (EC002060) | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Timer block attachment (ecl@ss10.0.1-27-37-13-08 [ACN996011]) | | |
| Switching function | | Other |
| Setting time | s | 1 - 30 |
| Number of contacts as normally open contact | | 2 |
| Number of contacts as normally closed contact | | 0 |
| Number of contacts as change-over contact | | 0 |
| Operating principle | | Electronic |

Approvals

| | | |
|-----------------------------|--|---|
| Product Standards | | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | | E29184 |
| UL Category Control No. | | NKCR |
| CSA File No. | | 012528 |
| CSA Class No. | | 3211-03 |
| North America Certification | | UL listed, CSA certified |

Dimensions



Assets (links)

Declaration of CE Conformity

00002566

Instruction Leaflets

IL04910004Z2018_05

Additional product information (links)

| | |
|--|---|
| IL04910004Z (AWA2527-2320) Electronical timer | |
| IL04910004Z (AWA2527-2320) Electronical timer | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04910004Z2018_05.pdf |
| Motor starters and "Special Purpose Ratings" for the North American market | http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf |
| Switchgear of Power Factor Correction Systems | http://www.moeller.net/binary/ver_techpapers/ver934en.pdf |

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|--|---|
| X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely | http://www.moeller.net/binary/ver_techpapers/ver938en.pdf |
| Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions | http://www.moeller.net/binary/ver_techpapers/ver944en.pdf |
| Effect of the Cabel Capacitance of Long Control Cables on the Actuation of Contactors | http://www.moeller.net/binary/ver_techpapers/ver949en.pdf |
| Switchgear for Luminaires | http://www.moeller.net/binary/ver_techpapers/ver955en.pdf |
| Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts | http://www.moeller.net/binary/ver_techpapers/ver956en.pdf |
| The Interaction of Contactors with PLCs | http://www.moeller.net/binary/ver_techpapers/ver957en.pdf |
| Busbar Component Adapters for modern Industrial control panels | http://www.moeller.net/binary/ver_techpapers/ver960en.pdf |