

# Specifications



Photo is representative



## Eaton 104945

Eaton Moeller® series DILM Timer module,  
200-240VAC, 0.5-10s, off-delayed

### General specifications

|                                 |                                                                                                                                                                                                                                |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series<br>DILM timer module                                                                                                                                                                                     |
| <b>CATALOG NUMBER</b>           | 104945                                                                                                                                                                                                                         |
| <b>MODEL CODE</b>               | DILM32-XTED11-<br>10(RAC240)                                                                                                                                                                                                   |
| <b>EAN</b>                      | 4015081048038                                                                                                                                                                                                                  |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 86 mm                                                                                                                                                                                                                          |
| <b>PRODUCT HEIGHT</b>           | 38 mm                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>            | 45 mm                                                                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>           | 0.073 kg                                                                                                                                                                                                                       |
| <b>CERTIFICATIONS</b>           | VDE 0660<br>IEC/EN 60947-4-1<br>DIN EN 61812<br>IEC/EN 60947<br>UL File No.: E29184<br>CE<br>CSA<br>UL Category Control No.:<br>NKKCR<br>CSA File No.: 012528<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 14-05<br>UL<br>UL 508 |
| <b>CATALOG NOTES</b>            | Cannot be combined with<br>top mounting auxiliary<br>contacts                                                                                                                                                                  |
| <b>PRODUCT TYPE</b>             | Accessory                                                                                                                                                                                                                      |

## Features Functions

|                             |                        |
|-----------------------------|------------------------|
| <b>FITTED WITH:</b>         | Suppressor circuits    |
| <b>SWITCH FUNCTION TYPE</b> | Time-delay dropped out |
| <b>OPERATING MODE</b>       | Electronic             |

## Ambient conditions, mechanical

|                          |                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MOUNTING POSITION</b> | As required (except suspended)                                                                                                                                                                             |
| <b>SHOCK RESISTANCE</b>  | 6 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>6 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |

## General

|                                               |                                                                                           |
|-----------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>DELAY TIME</b>                             | 50 ms, On-delayed<br>200 ms, Off-delayed                                                  |
| <b>LIFESPAN, MECHANICAL</b>                   | 3,000,000 Operations (DC operated)<br>3,000,000 Operations (AC operated)                  |
| <b>OPERATING FREQUENCY</b>                    | 360 mechanical Operations/h<br>3600 Operations/h                                          |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                       |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                         |
| <b>PRODUCT CATEGORY</b>                       | Accessories                                                                               |
| <b>PROTECTION</b>                             | Finger and back-of-hand proof, Protection against direct contact when actuated from front |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 4000 V AC                                                                                 |
| <b>RECOVERY TIME</b>                          | 70 ms (after 100 % time delay)                                                            |
| <b>REPETITION ACCURACY</b>                    | < 5 % (deviation)                                                                         |
| <b>USED WITH</b>                              | DILMP20<br>DILMP32-45<br>DILA<br>DILM7-32                                                 |

## Climatic environmental conditions

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>            | -25 °F                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>            | 60 °F                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b> | 25 °F                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b> | 40 °F                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>              | 40 °F                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>              | 80 °F                                                                          |
| <b>CLIMATIC PROOFING</b>                              | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Terminal capacities

|                                                          |                                                                      |
|----------------------------------------------------------|----------------------------------------------------------------------|
| <b>TERMINAL CAPACITY<br/>(FLEXIBLE WITH<br/>FERRULE)</b> | 1 x (0.75 - 1.5) mm <sup>2</sup>                                     |
|                                                          | 2 x (0.75 - 1.5) mm <sup>2</sup>                                     |
| <b>TERMINAL CAPACITY<br/>(SOLID)</b>                     | 2 x (0.75 - 1.5) mm <sup>2</sup><br>1 x (0.75 - 2.5) mm <sup>2</sup> |
| <b>TERMINAL CAPACITY<br/>(SOLID/STRANDED AWG)</b>        | 18 - 14                                                              |
| <b>SCREW SIZE</b>                                        | M3.5, Terminal screw,<br>Control circuit cables                      |
| <b>SCREWDRIVER SIZE</b>                                  | 2, Terminal screw, Pozidriv<br>screwdriver                           |
|                                                          | 0.8 x 5.5/1 x 6 mm,<br>Terminal screw, Standard<br>screwdriver       |

## Conventional thermal current I<sub>th</sub>

|                                                                                                     |     |
|-----------------------------------------------------------------------------------------------------|-----|
| <b>CONVENTIONAL<br/>THERMAL CURRENT I<sub>TH</sub><br/>OF AUXILIARY CONTACTS<br/>(1-POLE, OPEN)</b> | 4 A |
|-----------------------------------------------------------------------------------------------------|-----|

## Short-circuit rating

|                                                                   |                                                                                                                                                              |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SHORT-CIRCUIT CURRENT<br/>RATING (BASIC RATING)</b>            | 125 A, max. Fuse, SCCR<br>(UL/CSA)<br>125 A, max. CB, SCCR<br>(UL/CSA)<br>5 kA, SCCR (UL/CSA)                                                                |
| <b>SHORT-CIRCUIT CURRENT<br/>RATING (HIGH FAULT AT<br/>480 V)</b> | 10/65 kA, CB, SCCR<br>(UL/CSA)<br>10/100 kA, Fuse, SCCR<br>(UL/CSA)<br>125/70 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>50/32 A, max. CB, SCCR<br>(UL/CSA)  |
| <b>SHORT-CIRCUIT CURRENT<br/>RATING (HIGH FAULT AT<br/>600 V)</b> | 10/100 kA, Fuse, SCCR<br>(UL/CSA)<br>10/22 kA, CB, SCCR<br>(UL/CSA)<br>50/32 A, max. CB, SCCR<br>(UL/CSA)<br>125/125 A, Class J, max.<br>Fuse, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING</b>                        | Max. 4 A gG/gL, fuse,<br>Without welding, Auxiliary<br>and control circuits                                                                                  |

## Switching capacity

|                                                                     |                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------|
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>GENERAL USE)</b> | 5 A, 24 V DC, (UL/CSA)<br>5 A, 240 V AC, (UL/CSA)              |
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>PILOT DUTY)</b>  | B300, AC operated<br>(UL/CSA)<br>R300, DC operated<br>(UL/CSA) |

## Magnet system

|                                                             |                                                                     |
|-------------------------------------------------------------|---------------------------------------------------------------------|
| <b>DUTY FACTOR</b>                                          | 100 %                                                               |
| <b>PICK-UP VOLTAGE</b>                                      | 0.7 - 1.2 V DC x U <sub>c</sub><br>0.85 - 1.1 V AC x U <sub>c</sub> |
| <b>POWER CONSUMPTION (SEALING) AT DC</b>                    | 1.8 W                                                               |
| <b>POWER CONSUMPTION, SEALING, 50 HZ</b>                    | 2 VA, Coil in a cold state and 1.0 x U <sub>s</sub>                 |
| <b>POWER CONSUMPTION, SEALING, 60 HZ</b>                    | 2 VA, Coil in a cold state and 1.0 x U <sub>s</sub>                 |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b> | 100 V                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b> | 240 V                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 100 V                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b> | 240 V                                                               |

## Safety

|                       |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>SAFE ISOLATION</b> | 250 V AC, Between auxiliary contacts, According to EN 61140<br>250 V AC, Between coil and auxiliary contacts, According to EN 61140 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|

## Contacts

|                                                      |   |
|------------------------------------------------------|---|
| <b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0 |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 1 |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 1 |

## Design verification

|                                                                                         |                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                                                  | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>                                | 0 W                                                                |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                         |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                         |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                         |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                         |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.2.6 MECHANICAL</b>                                                                | Does not apply, since the                                          |

|                                                               |                                                                                                                                  |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>IMPACT</b>                                                 | entire switchgear needs to be evaluated.                                                                                         |
| <b>10.2.7 INSCRIPTIONS</b>                                    | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                 | Meets the product standard's requirements.                                                                                       |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                 | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b> | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>      | Is the panel builder's responsibility.                                                                                           |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>               | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>               | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                       | Is the panel builder's responsibility.                                                                                           |
| <b>10.10 TEMPERATURE RISE</b>                                 | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                             | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                    | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                              | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## Resources

|                               |                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGS                      | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                                             |
| DECLARATIONS OF CONFORMITY    | <a href="#">eaton-accessory-declaration-of-conformity-eu250801en.pdf</a><br><a href="#">eaton-accessory-declaration-of-conformity-uk251284en.pdf</a>               |
| DRAWINGS                      | <a href="#">eaton-electronic-timers-module-dilm-timer-module-dimensions.eps</a><br><a href="#">eaton-electronic-timers-module-dilm-timer-module-3d-drawing.eps</a> |
| ECAD MODEL                    | <a href="#">ETN.104945.edz</a>                                                                                                                                     |
| INSTALLATION INSTRUCTIONS     | <a href="#">IL04910004Z2021_07.pdf</a>                                                                                                                             |
| INSTALLATION VIDEOS           | <a href="#">WIN-WIN with push-in technology</a>                                                                                                                    |
| MCAD MODEL                    | <a href="#">eaton-electronic-timers-mcad-drawings-dilm32-xte11.dwg</a><br><a href="#">dilm32_xte11.stp</a>                                                         |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - 104945</a>                                                                                                                 |
| WIRING DIAGRAMS               | <a href="#">eaton-electronic-timers-module-dilm-timer-module-wiring-diagram-002.eps</a>                                                                            |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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