Specifications

# Eaton 105211

## Catalog Number: 105211

Eaton Moeller® series DILM Timer module, 100-130VAC, 0.05-1s, off-delayed



## General specifications

**Product Name**
Eaton Moeller® series DILM timer module

**Catalog Number**
105211

**EAN**
4015081050086

**Product Length/Depth**
86 mm

**Product Height**
38 mm

**Product Width**
45 mm

**Product Weight**
0.073 kg

**Certifications**
CSA-C22.2 No. 14-05
UL 508
CSA File No.: 012528
DIN EN 61812
UL Category Control No.: NKCR
IEC/EN 60947
IEC/EN 60947-4-1
CE
UL
VDE 0660
CSA
CSA Class No.: 3211-03
UL File No.: E29184

**Catalog Notes**
Cannot be combined with top mounting auxiliary contacts

Powering Business Worldwide

## Features Functions

Fitted with:

Suppressor circuits

Switch function type

Time-delay dropped out

Operating mode

Electronic

## General

Degree of protection

IP20

Delay time

50 ms, On-delayed

200 ms, Off-delayed

Lifespan, mechanical

3,000,000 Operations (AC operated)

3,000,000 Operations (DC operated)

Operating frequency

3600 Operations/h

360 mechanical Operations/h

Overvoltage category

III

Pollution degree

3

Product category

Accessories

Protection

Finger and back-of-hand proof, Protection against direct contact when actuated from front

Rated impulse withstand voltage (Uimp)

4000 V AC

Recovery time

70 ms (after 100 % time delay)

Repetition accuracy

< 5 % (deviation)

## Ambient conditions, mechanical

Mounting position

As required (except suspended)

Shock resistance

6 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

6 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

## Climatic environmental conditions

Ambient operating temperature - min

-25 °F

Ambient operating temperature - max

60 °F

Ambient operating temperature (enclosed) - min

25 °F

Ambient operating temperature (enclosed) - max

40 °F

Ambient storage temperature - min

40 °F

Ambient storage temperature - max

80 °F

Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

## Terminal capacities

Terminal capacity (flexible with ferrule)

2 x (0.75 - 1.5) mm²

1 x (0.75 - 1.5) mm²

Terminal capacity (solid)

1 x (0.75 - 2.5) mm²

2 x (0.75 - 1.5) mm²

Terminal capacity (solid/stranded AWG)

18 - 14

Screw size

M3.5, Terminal screw, Control circuit cables

Screwdriver size

0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver

2, Terminal screw, Pozidriv screwdriver

## Electrical rating

Rated operational current (Ie)

0.2 A at 110 V, DC-13 L/R - 50 ms (with 1 contact in series)

0.2 A at 60 V, DC-13 L/R - 50 ms (with 1 contact in series)

0.1 A at 220 V, DC-13 L/R - 300 ms (with 1 contact in series)

0.2 A at 60 V, DC-13 L/R - 300 ms (with 1 contact in series)

0.1 A at 220 V, DC-13 L/R - 50 ms (with 1 contact in series)

0.2 A at 110 V, DC-13 L/R - 300 ms (with 1 contact in series)

1 A at 24 V, DC-13 L/R - 50 ms (with 1 contact in series)

3 A at AC-15, 220 V 230 V 240 V

1 A at 24 V, DC-13 L/R - 300 ms (with 1 contact in series)

## Short-circuit rating

Short-circuit current rating (basic rating)

125 A, max. Fuse, SCCR (UL/CSA)

5 kA, SCCR (UL/CSA)

125 A, max. CB, SCCR (UL/CSA)

Short-circuit current rating (high fault at 480 V)

10/65 kA, CB, SCCR (UL/CSA)

50/32 A, max. CB, SCCR (UL/CSA)

125/70 A, Class J, max. Fuse, SCCR (UL/CSA)

10/100 kA, Fuse, SCCR (UL/CSA)

Short-circuit current rating (high fault at 600 V)

10/22 kA, CB, SCCR (UL/CSA)

50/32 A, max. CB, SCCR (UL/CSA)

10/100 kA, Fuse, SCCR (UL/CSA)

125/125 A, Class J, max. Fuse, SCCR (UL/CSA)

Short-circuit protection rating

Max. 4 A gG/gL, fuse, Without welding, Auxiliary and control circuits

## Switching capacity

Switching capacity (auxiliary contacts, general use)

5 A, 240 V AC, (UL/CSA)

5 A, 24 V DC, (UL/CSA)

## Magnet system

Duty factor

100 %

Pick-up voltage

Switching capacity (auxiliary contacts, pilot duty)

B300, AC operated (UL/CSA)

R300, DC operated (UL/CSA)

0.85 - 1.1 V AC x Uc

0.7 - 1.2 V DC x Uc

Power consumption (sealing) at DC

1.8 W

Power consumption, sealing, 50 Hz

2 VA, Coil in a cold state and 1.0 x Us

Power consumption, sealing, 60 Hz

2 VA, Coil in a cold state and 1.0 x Us

Rated control supply voltage (Us) at AC, 50 Hz - min

100 V

Rated control supply voltage (Us) at AC, 50 Hz - max

130 V

Rated control supply voltage (Us) at AC, 60 Hz - min

100 V

Rated control supply voltage (Us) at AC, 60 Hz - max

130 V

## Contacts

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

1

## Safety

Safe isolation

250 V AC, Between coil and auxiliary contacts, According to EN 61140

250 V AC, Between auxiliary contacts, According to EN 61140

## Design verification

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

10.2.2 Corrosion resistance

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.

### 10.10 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.

## Resources

### Catalogs

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Product Range Catalog Switching and protecting motors

SmartWire-DT Catalog

### Declarations of conformity

DA-DC-00004199.pdf

DA-DC-00003907.pdf

### Drawings

eaton-electronic-timers-module-dilm-timer-module-dimensions.eps

eaton-electronic-timers-module-dilm-timer-module-3d-drawing.eps

### eCAD model

ETN.105211.edz

### Installation instructions

IL04910004Z2021_07.pdf

### Installation videos

WIN-WIN with push-in technology

### mCAD model

dilm32_xte11.dwg

dilm32_xte11.stp

### Wiring diagrams

eaton-electronic-timers-module-dilm-timer-module-wiring-diagram-002.eps

### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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