Specifications

Eaton 101446



Catalog Number: 101446

Eaton Moeller® series DILM Timer module, 24VAC/DC, 1-30s, star-delta

General specifications

Product Name
Eaton Moeller® series DILM timer module

Catalog Number
101446

EAN
4015081013661

Product Length/Depth
86 mm

Product Height
38 mm

Product Width
45 mm

Product Weight
0.073 kg

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

Catalog Notes
Cannot be combined with top mounting auxiliary contacts

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Features Functions

Fitted with:

Suppressor circuits

Switch function type

Other

Operating mode

Electronic

General

Degree of protection

IP20

Delay time

200 ms, Off-delayed

50 ms, On-delayed

Lifespan, mechanical

3,000,000 Operations (DC operated)

3,000,000 Operations (AC operated)

Operating frequency

360 mechanical Operations/h

3600 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 (EN 50274)

Rated impulse withstand voltage (Uimp)

4000 V AC

Recovery time

70 ms (after 100 % time delay)

Repetition accuracy

< 5 % (deviation)

Time range - min

1 s

Time range - max

30 s

Ambient conditions, mechanical

Mounting position

As required (except suspended)

Shock resistance

6 g, N/C auxiliary contact, Mechanical, according to IEC/EN

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

60 °C

60068-2-27, Half-sinusoidal shock 10 ms

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

Ambient operating temperature (enclosed) - min

25 °C

Ambient operating temperature (enclosed) - max

40 °C

Ambient storage temperature - min

40 °C

Ambient storage temperature - max

80 °C

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)

1 x (0.75 - 1.5) mm²

2 x (0.75 - 1.5) mm²

Terminal capacity (solid)

2 x (0.75 - 1.5) mm²

1 x (0.75 - 2.5) 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

Tightening torque

1.2 Nm, Screw terminals

Electrical rating

Rated operational current (Ie)

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

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

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

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

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

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

0.2 A at 60 V, DC-13 L/R - 50 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 - 300 ms (with 1 contact in series)

Rated insulation voltage (Ui)

250 V

Rated operational voltage (Ue) - max

250 V

Short-circuit rating

Short-circuit current rating (basic rating)

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

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

5 kA, SCCR (UL/CSA)

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

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

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

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

10/65 kA, CB, 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

Conventional thermal current Ith

Conventional thermal current ith of auxiliary contacts (1-pole, open)

4 A

Switching capacity

Switching capacity (auxiliary contacts, general use)

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

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

Switching capacity (auxiliary contacts, pilot duty)

B300, AC operated (UL/CSA)

R300, DC operated (UL/CSA)

Magnet system

Duty factor

100 %

Pick-up voltage

0.7 - 1.2 V DC x Uc

0.85 - 1.1 V AC 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 - max

24 V

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

24 V

Rated control supply voltage (Us) at DC - max

24 V

Contacts

Contact changeover time

50 ms

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

0

Number of contacts (normally open contacts)

2

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

Rated operational current for specified heat dissipation (In)

0 A

Static heat dissipation, non-current-dependent Pvs

1.8 W

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 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

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.101446.edz

Installation instructions

IL04910004Z2021_07.pdf

Installation videos

WIN-WIN with push-in technology

mCAD model

dilm32_xtey20.stp

dilm32_xtey20.dwg

Wiring diagrams

eaton-electronic-timers-module-dilm-timer-module-wiring-diagram-003.eps

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.

10.9.4 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.

Powering Business Worldwide

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