

Specifications

Eaton 101442

Eaton Moeller® series DILM Timer module,
200-240VAC, 0.1-100s, on-delayed

General specifications

PRODUCT NAME	Eaton Moeller® series DILM timer module
CATALOG NUMBER	101442
MODEL CODE	DILM32-XTEE11(RAC240)
EAN	4015081013623
PRODUCT LENGTH/DEPTH	86 mm
PRODUCT HEIGHT	38 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.073 kg
CERTIFICATIONS	CSA File No.: 012528 IEC/EN 60947-4-1 UL 508 CSA Class No.: 3211-03 DIN EN 61812 IEC/EN 60947 UL Category Control No.: NKCR CE CSA UL VDE 0660 UL File No.: E29184 CSA-C22.2 No. 14-05
CATALOG NOTES	Cannot be combined with top mounting auxiliary contacts

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

Contacts

NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

Climatic environmental conditions

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

Conventional thermal current Ith

CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	4 A
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Design verification

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.

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

Does not apply, since the

Electrical rating

RATED OPERATIONAL CURRENT (IE)

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)
 0.1 A at 220 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 60 V, DC-13 L/R - 300 ms (with 1 contact in series)
 0.2 A at 110 V, DC-13 L/R - 50 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)

SWITCHING DEVICES AND COMPONENTS	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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W

Features & functions

FITTED WITH:	Suppressor circuits
OPERATING MODE	Electronic
SWITCH FUNCTION TYPE	Operating delayed

General information

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)

Magnet system

DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.7 - 1.2 V DC x U _c 0.85 - 1.1 V AC x U _c
POWER CONSUMPTION (SEALING) AT DC	1.8 W
POWER CONSUMPTION, SEALING, 50 HZ	2 VA, Coil in a cold state and 1.0 x U _s
POWER CONSUMPTION, SEALING, 60 HZ	2 VA, Coil in a cold state and 1.0 x U _s
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	200 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	200 V

Short-circuit rating

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

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
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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)	R300, DC operated (UL/CSA) B300, AC operated (UL/CSA)

Terminal capacities

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

Resources

CATALOGUES	SmartWire-DT Catalog
	Product Range Catalog Switching and protecting motors
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessory- declaration-of-conformity- eu250801en.pdf
	eaton-accessory- declaration-of-conformity- uk251284en.pdf
DRAWINGS	eaton-electronic-timers- module-dilm-timer- module-dimensions.eps
	eaton-electronic-timers- module-dilm-timer- module-3d-drawing.eps
ECAD MODEL	ETN.101442.edz
INSTALLATION INSTRUCTIONS	IL04910004Z2021_07.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
	dilm32_xte11.stp
MCAD MODEL	eaton-electronic-timers- mcad-drawings-dilm32- xte11.dwg
WIRING DIAGRAMS	eaton-electronic-timers- module-dilm-timer- module-wiring- diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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