Specifications



Photo is representative



Eaton 104945

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

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

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 - 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

Contacts

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

Conventional thermal current Ith

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

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 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.

Electrical rating

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

10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W

Features & functions

FITTED WITH:	Suppressor circuits
OPERATING MODE	Electronic
SWITCH FUNCTION TYPE	Time-delay dropped out

General information

DEGREE OF PROTECTION	IP20
DELAY TIME	50 ms, On-delayed 200 ms, Off-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
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
RECOVERY TIME	70 ms (after 100 % time delay)
REPETITION ACCURACY	< 5 % (deviation)
USED WITH	DILMP20 DILMP32-45 DILA DILM7-32

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	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	100 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	100 V

Safety

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

Short-circuit rating

SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	125 A, max. Fuse, SCCR (UL/CSA) 125 A, max. CB, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	10/65 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	10/100 kA, Fuse, SCCR (UL/CSA) 10/22 kA, CB, SCCR (UL/CSA) 50/32 A, max. CB, 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, 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)

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) mm² 1 x (0.75 - 2.5) mm²
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm² 2 x (0.75 - 1.5) mm²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14

Resources

CATALOGS	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.104945.edz
INSTALLATION INSTRUCTIONS	IL04910004Z2021_07.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	dilm32_xte11.stp
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 104945
WIRING DIAGRAMS	eaton-electronic-timers-module-dilm-timer-module-wiring-diagram-002.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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