

Specifications



Photo is representative



Eaton 278427

Eaton Moeller® series DILM Auxiliary contact module, 2 pole, Ith= 10 A, 1 N/O, 1 NC, Side mounted, Screw terminals, DILM40 - DILM225A

General specifications

PRODUCT NAME	Eaton Moeller® series DILM auxiliary contact module
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CATALOG NUMBER	278427
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MODEL CODE	DILM1000-XHI11-SA
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EAN	4015082784270
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PRODUCT LENGTH/DEPTH	77 mm
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PRODUCT HEIGHT	77 mm
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PRODUCT WIDTH	15 mm
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PRODUCT WEIGHT	0.041 kg
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CERTIFICATIONS	CE IEC/EN 60947-4-1 UL VDE 0660 IEC/EN 60947 UL Category Control No.: NKCR CSA UL 508 CSA File No.: 012528 UL File No.: E29184 CSA-C22.2 No. 14-05 CSA Class No.: 3211-04
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX 60 °C

AMBIENT STORAGE TEMPERATURE - MAX 80 °C

AMBIENT OPERATING TEMPERATURE - MIN -25 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX 40 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN -25 °C

AMBIENT STORAGE TEMPERATURE - MIN -40 °C

CLIMATIC PROOFING
Damp heat, cyclic, to IEC 60068-2-30
Damp heat, constant, to IEC 60068-2-78

Conventional thermal current I_{th}

CONVENTIONAL THERMAL CURRENT I_{TH} AT 60°C (3-POLE, OPEN) 10 A

Contacts

CONTROL CIRCUIT RELIABILITY $\lambda < 5 \times 1/10^7$ (1 failure at 2,000,000 operations for $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA)

NUMBER OF CONTACTS (CHANGE-OVER CONTACTS) 0

NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) 1

NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) 1

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.

10.2.3.1 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	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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.11 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A
STATIC HEAT	0 W

Electrical rating

RATED INSULATION VOLTAGE (UI)	690 V
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RATED OPERATIONAL CURRENT (IE)	10 A at 24 V, DC L/R $\leq$ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R $\leq$ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R $\leq$ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R $\leq$ 15 ms (with 1 contact in series)
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.8 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.3 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	2 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	1.5 A
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RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
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DISSIPATION, NON-CURRENT-DEPENDENT PVS

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
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FEATURES	Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L)
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FITTED WITH:	Interlocked opposing contacts
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FUNCTIONS	For standard applications
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NUMBER OF POLES	Two-pole
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General information

CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP20
LIFESPAN, ELECTRICAL	1,300,000 Operations (at 230 V, AC-15, 3 A)
MODEL	Top mounting
MOUNTING METHOD	Side mounting
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V 6000 V AC
TYPE	Side-mounting auxiliary contacts

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA at 500 V
SHORT-CIRCUIT PROTECTION RATING	Max. 16 A gG/gL, Fuse, Without welding, Auxiliary contacts
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	16 A gG/gL, 500 V, Max. Fuse, Contacts

Terminal capacities

SCREW SIZE	M3.5, Terminal screw
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
TIGHTENING TORQUE	1.2 Nm, Screw terminals
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14

Safety

SAFE ISOLATION

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

Switching capacity

SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-eu250793en.pdf eaton-accessory-declaration-of-conformity-uk251276en.pdf
DRAWINGS	eaton-contactors-contact-dilm-accessory-3d-drawing-006.eps
ECAD MODEL	ETN.278427.edz
INSTALLATION	IL03407034Z

INSTRUCTIONS

INSTALLATION VIDEOS

[WIN-WIN with push-in technology](#)

[dil_m32_xhi11_s.stp](#)

MCAD MODEL

[eaton-contact-blocks-mcad-drawings-dil-m32-xhi11-s.dwg](#)

WIRING DIAGRAMS

[eaton-contactors-wiring-diagram-2100swi-107.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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