

Specifications



Eaton 277950

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, DILM40 - DILM170

General specifications

PRODUCT NAME	Eaton Moeller® series DILM auxiliary contact module
---------------------	---

CATALOG NUMBER	277950
-----------------------	--------

MODEL CODE	DILM150-XHI22
-------------------	---------------

EAN	4015082779504
------------	---------------

PRODUCT LENGTH/DEPTH	39 mm
-----------------------------	-------

PRODUCT HEIGHT	46 mm
-----------------------	-------

PRODUCT WIDTH	45 mm
----------------------	-------

PRODUCT WEIGHT	0.055 kg
-----------------------	----------

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

PRODUCT TYPE	Accessory
---------------------	-----------

Features Functions

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

Ambient conditions, mechanical

SHOCK RESISTANCE	5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
-------------------------	--

General

DEGREE OF PROTECTION	IP20
LIFESPAN, ELECTRICAL	1,300,000 Operations (at 230 V, AC-15, 3 A)
MODEL	Top mounting
MOUNTING METHOD	Front fastening
CONNECTION	Screw terminals
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 AC
TYPE	Front mounting auxiliary contact

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ²
--	--

TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ²
--------------------------------------	--

TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
---	---------

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)	6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)
---	--

RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
---	-----

RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
---	-----

RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
---	-------

RATED INSULATION VOLTAGE (UI)	690 V
--	-------

RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
---	-------

Short-circuit rating

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
--	---

Conventional thermal current I_{th}

CONVENTIONAL THERMAL CURRENT I_{TH} AT 60°C (3-POLE, OPEN)	16 A
---	------

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)
--	--

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)	2
--	---

NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
--	---

Safety

SAFE ISOLATION

440 V AC, Between auxiliary contacts, According to EN 61140
440 V AC, Between coil and 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 0.23 W

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 4 A

STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS 0 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	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.

Resources

[Product Range Catalog](#)
[Switching and protecting motors](#)

CATALOGS [SmartWire-DT Catalog](#)

[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-004.eps](#)

ECAD MODEL

[ETN.277950.edz](#)

INSTALLATION INSTRUCTIONS

[IL03407034Z](#)

INSTALLATION VIDEOS

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

MCAD MODEL

[dil_m150_xhi_4](#)

[dil_m150_xhi_4.stp](#)

WIRING DIAGRAMS

[2100SWI-133](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

