

Specifications

Eaton 278049

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 1 N/OE, 1 NC, 1 NCL, Front fixing, Spring-loaded terminals, DILMC40 - DILMC150

General specifications

PRODUCT NAME	Eaton Moeller® series DILM auxiliary contact module
CATALOG NUMBER	278049
MODEL CODE	DILM150-XHICV22
EAN	4015082780494
PRODUCT LENGTH/DEPTH	39 mm
PRODUCT HEIGHT	46 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.055 kg
CERTIFICATIONS	CSA File No.: 012528 IEC/EN 60947 CSA Class No.: 3211-03 VDE 0660 CSA CSA-C22.2 No. 14-05 UL File No.: E29184 UL Category Control No.: NKCR UL IEC/EN 60947-4-1 UL 508 CE
GLOBAL CATALOG	278049

Product specifications

TYPE	Front mounting auxiliary contact
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	Does not apply, since the

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	DA-DC-00004818.pdf DA-DC-00004817.pdf DA-DC-00004775.pdf DA-DC-00004781.pdf DA-DC-00004774.pdf DA-DC-00004782.pdf
DRAWINGS	eaton-contactors-contact-dilm-accessory-3d-drawing-005.eps
ECAD MODEL	ETN.278049.edz
INSTALLATION INSTRUCTIONS	IL03407034Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CD-dil_m150_xhic_4 DA-CS-dil_m150_xhic_4
WIRING DIAGRAMS	eaton-contactors-contact-dilm-accessory-wiring-diagram-011.eps

PROTECTION OF ASSEMBLIES	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.
ELECTRIC CONNECTION TYPE	Spring clamp connection
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	16 A
EQUIPMENT HEAT DISSIPATION, CURRENT-	0 W

DEPENDENT PVID	
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.23 W
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF SWITCHES (FAULT SIGNAL)	0
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SCREWDRIVER SIZE	0.6 x 3.5 mm, Spring-loaded terminals
MOUNTING METHOD	Front fastening
CONNECTION	Spring-loaded terminals
OVERVOLTAGE CATEGORY	III
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)
DEGREE OF PROTECTION	IP20
NUMBER OF CONTACTS	1 (normally open, early make) 1 (normally closed, late break)
MODEL	Top mounting
LAMP HOLDER	None
FUNCTIONS	For standard applications
SAFE ISOLATION	440 V AC, Between auxiliary contacts, According to EN 61140 440 V AC, Between coil and auxiliary contacts, According to EN 61140
RATED OPERATIONAL CURRENT (IE)	10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 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) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)
LIFESPAN, ELECTRICAL	1,300,000 Operations (at 230 V, AC-15, 3 A)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
NUMBER OF POLES	Four-pole
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	16 A gG/gL, 500 V, Max. Fuse, Contacts
SHORT-CIRCUIT PROTECTION RATING	Max. 16 A gG/gL, Fuse, Without welding, Auxiliary contacts
RATED INSULATION VOLTAGE (UI)	690 V
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 OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
TERMINAL CAPACITY (FLEXIBLE WITH	1 x (0.75 - 1.5) mm ² 2 x (0.75 - 1.5) mm ²

FERRULE)	
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
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

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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

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