

Specifications



Eaton 277953

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 1 N/OE, 1 NC, 1 NCL, Front fixing, Screw terminals, DILM40 - DILM170

General specifications

PRODUCT NAME	Eaton Moeller® series
	DILM auxiliary contact module
CATALOG NUMBER	277953
MODEL CODE	DILM150-XHIV22
EAN	4015082779535
PRODUCT LENGTH/DEPTH	39 mm
PRODUCT HEIGHT	46 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.055 kg
CERTIFICATIONS	CSA File No.: 012528
	UL
	CSA
	UL 508
	CSA Class No.: 3211-03
	UL Category Control No.:
	NKCR
	VDE 0660
	IEC/EN 60947
	CSA-C22.2 No. 14-05
GLOBAL CATALOG	IEC/EN 60947-4-1
	UL File No.: E29184
	CE
	277953

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

	SmartWire-DT Catalog
	Product Range Catalog
	Switching and protecting motors
CATALOGS	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
	DA-DC-00004818.pdf
	DA-DC-00004817.pdf
DECLARATIONS OF CONFORMITY	DA-DC-00004774.pdf
	DA-DC-00004781.pdf
	DA-DC-00004775.pdf
	DA-DC-00004782.pdf
	eaton-contactors-dilm-dimensions-011.eps
DRAWINGS	eaton-contactors-contact-dilm-accessory-3d-drawing-004.eps
ECAD MODEL	ETN.277953.edz
INSTALLATION INSTRUCTIONS	IL03407034Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
	dil_m80_150_22.stp
	dil_m150_xhi_4
MCAD MODEL	dil_m80_150_22.dwg
	dil_m150_xhi_4.stp
PEP ECO-PASSPORT	eaton-accessory-declaration-of-conformity-eu250793en.pdf
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	Screw connection
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
MOUNTING METHOD	Front fastening
CONNECTION	Screw 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 coil and auxiliary contacts, According to EN 61140 440 V AC, Between auxiliary contacts, According to EN 61140
RATED OPERATIONAL CURRENT (IE)	1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in

	series) 10 A at 24 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) 6 A at 60 V, DC L/R \leq 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)	A600, AC operated (UL/CSA) P300, DC 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 FERRULE)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
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 (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:



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