Specifications



Eaton 139580

Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Microswitch, Front fixing, Screw terminals, DILA, DILM7 - DILM38

General specifications

PRODUCT NAME	Eaton Moeller® series DILA Accessory Auxiliary contact module
CATALOG NUMBER	139580
MODEL CODE	DILA-XHIR22
EAN	4015081363582
PRODUCT LENGTH/DEPTH	45 mm
PRODUCT HEIGHT	42 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.05 kg
CERTIFICATIONS	CE UL File No.: E29184 VDE 0660 CSA Class No.: 3211-03 UL 508 IEC/EN 60947 CSA CSA File No.: 012528 UL Category Control No.: NKCR CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 UL
GLOBAL CATALOG	139580







Product specifications

ТҮРЕ	Front mounting auxiliary contact
FEATURES	Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5- 1 Annex L)
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

Resources

CATALOGS

CONFORMITY

Product Range Catalog Switching and protecting motors eaton-product-overviewfor-machinery-catalogueca08103003zen-en-us.pdf DA-DC-00004996.pdf DA-DC-00004789.pdf DA-DC-00004816.pdf DA-DC-00004811.pdf DA-DC-00004815.pdf DA-DC-00004776.pdf DA-DC-00004913.pdf DA-DC-00004983.pdf DA-DC-00004988.pdf **DECLARATIONS OF** DA-DC-00004784.pdf DA-DC-00004792.pdf DA-DC-00004810.pdf DA-DC-00004881.pdf DA-DC-00004992.pdf DA-DC-00004819.pdf DA-DC-00004777.pdf DA-DC-00005005.pdf DA-DC-00004783.pdf eaton-contactorsmounting-dilmdimensions-002.eps eaton-contactorsmounting-dilmdimensions.eps eaton-contactors-moduledilm-dimensions.eps eaton-contactors-framedilm-dimensions.eps

> eaton-contactors-contactdilm-accessory-3ddrawing-008.eps

ECAD MODEL

DRAWINGS

ETN.139580.edz

	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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
ELECTRIC CONNECTION TYPE	Screw connection
FITTED WITH:	Switching elements according to EN 50005 Interlocked opposing contacts
OPERATING FREQUENCY	9000 Operations/h
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

INSTALLATION INSTRUCTIONS	<u>eaton-contactors-dila-</u> <u>dilm7-15-dilmp20-</u> <u>instruction-leaflet-</u> <u>il03407013z.pdf</u>
INSTALLATION VIDEOS	<u>WIN-WIN with push-in</u> <u>technology</u>
MCAD MODEL	DA-CD-dil_a_xhir22
	DA-CS-dil a xhir22
WIRING DIAGRAMS	2100SWI-106

AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	16 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	0.5 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.16 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	ш
CONTROL CIRCUIT RELIABILITY	$λ < 1/10^8$ (1 failure at 100,000,000 operations for U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA) $λ < 5.3 \times 1/10^8$ (1 failure at 19,000,000 operations for U _e = 24 V DC, Umin = 17 V, Imin = 1 mA)

DEGREE OF PROTECTION	IP20
CODE NUMBER	33 in combination with DILA(C)-22 42 in combination with DILA(C)-31 51E in combination with DILA(C)-40
MODEL	Top mounting
LAMP HOLDER	None
FUNCTIONS	For electronic applications For standard applications
SAFE ISOLATION	400 V AC, Between auxiliary contacts, According to EN 61140 400 V AC, Between coil and auxiliary contacts, According to EN 61140
RATED OPERATIONAL CURRENT (IE)	0.25 A at 220 V, DC L/R \leq 50 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R \leq 50 ms (with 3 contacts in series) 0.1 A at AC-12, 240 V 0.3 A at DC-12, 60 V 10 A at 60 V, DC L/R \leq 15 ms (with 2 contacts in series) 5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in series) 1 A at 60 V, DC L/R \leq 50 ms (with 3 contacts in series) 0.5 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in series) 3 A at 110 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 110 V, DC L/R \leq 15 ms (with 3 contacts in series) 0.5 A at 220 V, DC L/R \leq 15 ms (with 1 contact in series) 0.5 A at 220 V, DC L/R \leq 15 ms (with 1 contact in series) 6 A at 10 V, DC L/R \leq 15 ms (with 3 contacts in series) 0.5 A at DC-12, 24 V 10 A at 24 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)
SCREW SIZE	M3.5, Terminal screw
LIFESPAN, ELECTRICAL	1,300,000 Operations (at

	230 V, AC-15, 3 A) 1,300,000 Operations (at DC-12, 24 V / 50 mA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	0.1 A, 250 V DC, (UL/CSA)
LIFESPAN, MECHANICAL	10,000,000 Operations (DC operated) 10,000,000 Operations (AC operated)
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	1.6 A gG/gL, Max. Fuse, Electrical specifications for microswitch auxiliary contacts 53-54 and 81-82 10 A gG/gL, 500 V, Max. Fuse, Contacts
SHORT-CIRCUIT PROTECTION RATING	Max. 10 A gG/gL, Fuse, Without welding, Auxiliary contacts
RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL CURRENT (IE) - MIN	1 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	4 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 (IE) AT DC-13, 110 V	0.5 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.25 A
RATED OPERATIONAL CURRENT (IE) AT DC-13,	2.5 A

24 V	
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	1 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A
RATED OPERATIONAL VOLTAGE (UE) - MIN	3 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX	60 V
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 1.5) mm², Screw terminals 1 x (0.75 - 1.5) mm², Screw terminals
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² , Screw terminals 1 x (0.75 - 2.5) mm ² , Screw terminals
TIGHTENING TORQUE	1.2 Nm, Screw terminals
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Screw terminals
SHOCK RESISTANCE	5 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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