## **DATASHEET - DILA-XHI31**



## Auxiliary contact module, 4 pole, lth= 16 A, 3 N/O, 1 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

Part no.	DILA-XHI31
	276427
EL Number	4130218
(Norway)	

## **General specifications**

General specifications	
Product name	Eaton Moeller® series DILA Accessory Auxiliary contact module
Part no.	DILA-XHI31
EAN	4015082764272
Product Length/Depth	45 millimetre
Product height	38 millimetre
Product width	36 millimetre
Product weight	0.048 kilogram
Certifications	VDE 0660   CSA   IEC/EN 60947-4-1   CSA-C22.2 No. 14-05   IEC/EN 60947   CE   UL   CSA File No.: 012528   UL 508   UL Category Control No.: NKCR   UL File No.: 229184   CSA Class No.: 3211-03
Product Tradename	DILA
Product Type	Accessory
Product Sub Type	Auxiliary contact module
Features & Functions	
Features	Interlocked opposing contacts within an auxiliary contact module (according to IE 60947-5-1 Annex L)
Functions	For standard applications
Fitted with:	Interlocked opposing contacts Switching elements according to EN 50005
Number of poles	Four-pole
Electric connection type	Screw connection
General information	
Connection	Screw terminals
Degree of protection	IP20
Shock resistance	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 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
Lifespan, electrical	1,300,000 Operations (at 230 V, AC-15, 3 A)
Lifespan, mechanical	10,000,000 Operations (AC operated) 10,000,000 Operations (DC operated)
Model	Top mounting
Mounting method	Front fastening
Operating frequency	9000 Operations/h
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
Туре	Front mounting auxiliary contact
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient exercting temperature may	60 °C
Ambient operating temperature - max	

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
erminal capacities	
Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm², Screw terminals 1 x (0.75 - 2.5) mm², Screw terminals
Terminal capacity (solid)	1 x (0.75 - 2.5) mm², Screw terminals 2 x (0.75 - 2.5) mm², Screw terminals
Terminal capacity (solid/stranded AWG)	18 - 14, Screw terminals
Screw size	M3.5, Terminal screw
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
lectrical rating	
Conventional thermal current ith at 60°C (3-pole, open)	16 A
Rated operational current (le)	1 A at 60 V, DC L/R $\le$ 50 ms (with 3 contacts in series) 5 A at 220 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 0.25 A at 220 V, DC L/R $\le$ 50 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R $\le$ 50 ms (with 3 contacts in series) 3 A at 110 V, DC L/R $\le$ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R $\le$ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R $\le$ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R $\le$ 15 ms (with 1 contact in series) 6 A at 110 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 10 A at 60 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 10 A at 60 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 10 A at 60 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 10 A at 60 V, DC L/R $\le$ 15 ms (with 3 contacts in series)
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, 24 V	2.5 A
Rated operational current (Ie) at DC-13, 60 V	1A
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 insulation voltage (Ui)	690 V
Rated operational voltage (Ue) at AC - max	500 V
Short-circuit protection rating	Max. 10 A gG/gL, Fuse, Without welding, Auxiliary contacts
Short-circuit protection rating without welding	10 A gG/gL, 500 V, Max. Fuse, Contacts
Safe isolation	400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140
Switching capacity (auxiliary contacts, general use)	1 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
ontacts	
Code number	71E in combination with DILA(C)-40 62 in combination with DILA(C)-31 53 in combination with DILA(C)-22
Control circuit reliability	$\lambda < 5 \times 1/10^7$ (1 failure at 2,000,000 operations for U# = 24 V DC, Umin = 17 V, Imin 5.4 mA)
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	3
esign verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.16 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.

10.2.3.3 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.

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss13-27-37-13-02 [AKN342018])

Number of contacts as change-over contact		0
Number of contacts as normally open contact		3
Number of contacts as normally closed contact		1
Number of fault-signal switches		0
Rated operation current le at AC-15, 230 V	А	4
Type of electric connection		Screw connection
Model		Clip-on
Mounting method		Front fastening
Lamp holder		None