## **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. EL Number (Norway)	DILA-XHI31 276427 4130218	
<b>General specifications</b>	-		
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			CSA Class No.: 3211-03 UL File No.: E29184 UL Category Control No.: NKCR UL 508 CSA File No.: 012528 UL CE IEC/EN 60947 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 CSA VDE 0660
Product Tradename			DILA
Product Type			Accessory
Product Sub Type			Auxiliary contact module
Catalog Notes			Auxiliary contacts used as mirror contacts (according to IEC/EN 60947-4-1 Appendix F (not N/C late open)) Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside th auxiliary contact modules, also for the integrated auxiliary contacts of the DILM 7 DILM32 Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Version E combinations correspond to EN 50011 and are to be preferred.
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:			Switching elements according to EN 50005 Interlocked opposing contacts
Number of poles			Four-pole
Electric connection type			Screw connection
General information			
Degree of protection			IP20
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
Lifespan, electrical			1,300,000 Operations (at 230 V, AC-15, 3 A)
Lifespan, mechanical			10,000,000 Operations (DC operated) 10,000,000 Operations (AC operated)
Model			Top mounting
Mounting method			Front fastening
Operating frequency			9000 Operations/h
Overvoltage category			
Pollution degree			3
Protection			Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand v	voltage (Uimp)		6000 V AC
Туре			Front mounting auxiliary contact

Climatic environmental conditions	
	-25 °C
Ambient operating temperature - min Ambient operating temperature - max	-23 C
Ambient operating temperature - max	25 °C
	40 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm², Screw terminals 2 x (0.75 - 2.5) mm², Screw terminals
Terminal capacity (solid)	2 x (0.75 - 2.5) mm², Screw terminals 1 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	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque	1.2 Nm, Screw terminals
Electrical rating	
Conventional thermal current ith at 60°C (3-pole, open)	16 A
Rated operational current (le)	0.5 A at 110 V, DC L/R $\leq$ 50 ms (with 3 contacts in series) 10 A at 60 V, DC L/R $\leq$ 15 ms (with 2 contacts in series) 6 A at 110 V, DC L/R $\leq$ 15 ms (with 3 contacts in series) 6 A at 60 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) 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) 2.5 A at 24 V, DC L/R $\leq$ 50 ms (with 1 contacts in series) 0.25 A at 220 V, DC L/R $\leq$ 50 ms (with 3 contacts in series) 5 A at 220 V, DC L/R $\leq$ 50 ms (with 3 contacts in series) 1 A at 60 V, DC L/R $\leq$ 50 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	1 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 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 auxiliary contacts, According to EN 61140 400 V AC, Between coil and auxiliary contacts, According to EN 61140
Switching capacity (auxiliary contacts, general use)	10 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	
Code number	53 in combination with DILA(C)-22 62 in combination with DILA(C)-31 71E in combination with DILA(C)-40
Control circuit reliability	$<$ 2 $\lambda,<$ 1 failure at 100,000,000 Operations (at 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
Design 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.
10.2.3.2 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.

## **Technical data ETIM 8.0**

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@ss10.0.1-27-37-13-02 [AKN342013]) 0 Number of contacts as change-over contact 3 Number of contacts as normally open contact 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 Top mounting Mounting method Front fastening Lamp holder None