



**Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38**

**Part no. DILA-XHIC31**

**276533**

**EL Number  
(Norway)**

**4110274**

<b>General specifications</b>	
Product name	Eaton Moeller® series DILA Accessory Auxiliary contact module
Part no.	DILA-XHIC31
EAN	4015082765330
Product Length/Depth	55 millimetre
Product height	38 millimetre
Product width	36 millimetre
Product weight	0.057 kilogram
Certifications	UL 508 IEC/EN 60947 CSA-C22.2 No. 14-05 UL UL File No.: E29184 VDE 0660 CSA CSA File No.: 012528 IEC/EN 60947-4-1 CSA Class No.: 3211-03 UL Category Control No.: NKCR CE
Product Tradename	DILA
Product Type	Accessory
Product Sub Type	Auxiliary contact module
Catalog Notes	This item can only be ordered until December 31, 2023 with a maximum delivery date of May 31, 2024.
<b>Features &amp; Functions</b>	
Features	Interlocked opposing contacts within an auxiliary contact module (according to IEC 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	Spring clamp connection
<b>General information</b>	
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	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
Type	Front mounting auxiliary contact
<b>Climatic environmental conditions</b>	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C

Ambient operating temperature (enclosed) - min		-25 °C
Ambient operating temperature (enclosed) - max		40 °C
Ambient storage temperature - min		-40 °C
Ambient storage temperature - max		80 °C
Climatic proofing		Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>Terminal capacities</b>		
Terminal capacity (flexible with ferrule)		2 x (0.75 - 1.5) mm <sup>2</sup> , Spring-loaded terminals 1 x (0.75 - 1.5) mm <sup>2</sup> , Spring-loaded terminals
Terminal capacity (solid)		2 x (0.75 - 2.5) mm <sup>2</sup> , Spring-loaded terminals 1 x (0.75 - 2.5) mm <sup>2</sup> , Spring-loaded terminals
Terminal capacity (solid/stranded AWG)		18 - 14
Screw size		M3.5, Terminal screw
Screwdriver size		0.6 x 3.5 mm, Spring-loaded terminals
<b>Electrical rating</b>		
Conventional thermal current I <sub>th</sub> at 60°C (3-pole, open)		16 A
Rated operational current (I <sub>e</sub> )		2.5 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series) 0.5 A at 110 V, DC L/R ≤ 50 ms (with 3 contacts in series) 10 A at 24 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) 0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series)
Rated operational current (I <sub>e</sub> ) at AC-15, 220 V, 230 V, 240 V		4 A
Rated operational current (I <sub>e</sub> ) at AC-15, 380 V, 400 V, 415 V		4 A
Rated operational current (I <sub>e</sub> ) at AC-15, 500 V		1.5 A
Rated operational current (I <sub>e</sub> ) at DC-13, 24 V		2.5 A
Rated operational current (I <sub>e</sub> ) at DC-13, 60 V		1 A
Rated operational current (I <sub>e</sub> ) at DC-13, 110 V		0.5 A
Rated operational current (I <sub>e</sub> ) at DC-13, 220 V, 230 V		0.25 A
Rated insulation voltage (U <sub>i</sub> )		690 V
Rated operational voltage (U <sub>e</sub> ) 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)
<b>Communication</b>		
Connection type		Spring-loaded terminals
<b>Contacts</b>		
Code number		62 in combination with DILA(C)-31 53 in combination with DILA(C)-22 71E in combination with DILA(C)-40
Control circuit reliability		$\lambda < 5 \times 1/10^7$ (1 failure at 2,000,000 operations for U# = 24 V DC, U <sub>min</sub> = 17 V, I <sub>min</sub> = 5.4 mA)
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		1
Number of contacts (normally open contacts)		3
<b>Design verification</b>		
Equipment heat dissipation, current-dependent P <sub>vid</sub>		0 W
Heat dissipation capacity P <sub>diss</sub>		0 W
Heat dissipation per pole, current-dependent P <sub>vid</sub>		0.16 W
Rated operational current for specified heat dissipation (I <sub>in</sub> )		4 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>		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 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 I <sub>e</sub> at AC-15, 230 V	A	4
Type of electric connection		Spring clamp connection
Model		Clip-on
Mounting method		Front fastening
Lamp holder		None