

**Auxiliary contact module, 4 pole, Ith= 16 A, 4 N/O, Front fixing, Screw terminals, DILA, DILM7 - DILM38**

**Part no. DILA-XHI40**

**276428**

**EL Number**

**4130219**

**(Norway)**

<b>General specifications</b>		
Product name		Eaton Moeller® series DILA Accessory Auxiliary contact module
Part no.		DILA-XHI40
EAN		4015082764289
Product Length/Depth		45 millimetre
Product height		38 millimetre
Product width		36 millimetre
Product weight		0.049 kilogram
Certifications		UL 508 CSA-C22.2 No. 14-05 IEC/EN 60947 UL File No.: E29184 UL Category Control No.: NKCR CSA IEC/EN 60947-4-1 CSA File No.: 012528 CSA Class No.: 3211-03 UL VDE 0660 CE
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 the 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.
<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		Screw connection
<b>General information</b>		
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
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 - 2.5) mm <sup>2</sup> , Screw terminals 1 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals
Terminal capacity (solid)		1 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals 2 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals
Terminal capacity (solid/stranded AWG)		18 - 14
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
<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> )		3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact 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) 1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) 0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 2.5 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series) 6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 6 A at 60 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) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 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 auxiliary contacts, According to EN 61140 400 V AC, Between coil and 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)		P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
<b>Communication</b>		
Connection type		Screw connection
<b>Contacts</b>		
Code number		80E in combination with DILA(C)-40 71 in combination with DILA(C)-31 62 in combination with DILA(C)-22
Control circuit reliability		< 2 λ, < 1 failure at 100,000,000 Operations (at 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)		0
Number of contacts (normally open contacts)		4
<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>n</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 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])		
Number of contacts as change-over contact		0
Number of contacts as normally open contact		4
Number of contacts as normally closed contact		0
Number of fault-signal switches		0
Rated operation current I <sub>e</sub> at AC-15, 230 V	A	4
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Front fastening
Lamp holder		None