

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

Part no. DILA-XHIR22

139580

EL Number

4110223

(Norway)

General specifications	
Product name	Eaton Moeller® series DILA Accessory Auxiliary contact module
Part no.	DILA-XHIR22
EAN	4015081363582
Product Length/Depth	45 millimetre
Product height	42 millimetre
Product width	36 millimetre
Product weight	0.05 kilogram
Certifications	CSA Class No.: 3211-03 IEC/EN 60947 UL CSA UL File No.: E29184 CE VDE 0660 UL Category Control No.: NKCR CSA-C22.2 No. 14-05 UL 508 CSA File No.: 012528 IEC/EN 60947-4-1
Product Tradename	DILA
Product Type	Accessory
Product Sub Type	Auxiliary contact module
Catalog Notes	All auxiliary N/C contacts (81/82 N/C microswitches as well) can be used as a mirror contact as defined in IEC/EN 60947-4-1 Appendix F (not NC late-break) Conventional 63/64 N/O and 71/72 N/C auxiliary contacts with interlocked opposing contacts, in accordance with IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact modules and for the integrated auxiliary contacts in DILM 7 - DILM32 units (not microswitches) 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 IEC 60947-5-1 Annex L)
Functions	For electronic applications 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) 1,300,000 Operations (at DC-12, 24 V / 50 mA)
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
Climatic environmental conditions		
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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities		
Terminal capacity (flexible with ferrule)		2 x (0.75 - 1.5) mm ² , Screw terminals 1 x (0.75 - 1.5) mm ² , 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
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
Electrical rating		
Conventional thermal current I _{th} at 60°C (3-pole, open)		16 A
Conventional thermal current I _{th} of auxiliary contacts (1-pole, open)		0.5 A
Rated operational current (I _e)		0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R ≤ 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 ≤ 15 ms (with 2 contacts in series) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 1 A at 60 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) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 0.5 A at DC-12, 24 V 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)
Rated operational current (I _e) - min		1 A
Rated operational current (I _e) at AC-15, 220 V, 230 V, 240 V		4 A
Rated operational current (I _e) at AC-15, 380 V, 400 V, 415 V		4 A
Rated operational current (I _e) at AC-15, 500 V		1.5 A
Rated operational current (I _e) at DC-13, 24 V		2.5 A
Rated operational current (I _e) at DC-13, 60 V		1 A
Rated operational current (I _e) at DC-13, 110 V		0.5 A
Rated operational current (I _e) at DC-13, 220 V, 230 V		0.25 A
Rated operational voltage (U _e) - min		3 V
Rated operational voltage (U _e) at DC - max		60 V
Rated insulation voltage (U _i)		690 V
Rated operational voltage (U _e) 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		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
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)		0.1 A, 250 V DC, (UL/CSA)
Communication		
Connection type		Screw connection
Contacts		
Code number		33 in combination with DILA(C)-22 42 in combination with DILA(C)-31 51E in combination with DILA(C)-40

Control circuit reliability			$\lambda < 10^{-8}$ (1 failure at 100,000,000 operations for $U_{\#} = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA) $\lambda < 5.3 \times 10^{-8}$ (1 failure at 19,000,000 operations for $U_{\#} = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 1$ mA)
Number of contacts (change-over contacts)			0
Number of contacts (normally closed contacts)			2
Number of contacts (normally open contacts)			2
Design verification			
Equipment heat dissipation, current-dependent P_{vid}			0 W
Heat dissipation capacity P_{diss}			0 W
Heat dissipation per pole, current-dependent P_{vid}			0.16 W
Rated operational current for specified heat dissipation (I_n)			4 A
Static heat dissipation, non-current-dependent P_{vs}			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			2
Number of contacts as normally closed contact			2
Number of fault-signal switches			0
Rated operation current I_e at AC-15, 230 V		A	4
Type of electric connection			Screw connection
Model			Clip-on
Mounting method			Front fastening
Lamp holder			None