



**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  
(Norway)** 4110223

**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	IEC/EN 60947-4-1 CSA File No.: 012528 UL 508 CSA-C22.2 No. 14-05 UL Category Control No.: NKCR VDE 0660 CE UL File No.: E29184 CSA UL IEC/EN 60947 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 IEC 60947-5-1 Annex L)
Functions	For standard applications For electronic 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 DC-12, 24 V / 50 mA) 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
Oversupply 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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>Terminal capacities</b>	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 1.5) mm <sup>2</sup> , Screw terminals 2 x (0.75 - 1.5) 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 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
<b>Electrical rating</b>	
Conventional thermal current ith at 60°C (3-pole, open)	16 A
Conventional thermal current ith of auxiliary contacts (1-pole, open)	0.5 A
Rated operational current (Ie)	6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 0.5 A at DC-12, 24 V 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) 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) 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) 10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 0.3 A at DC-12, 60 V 0.1 A at AC-12, 240 V 2.5 A at 24 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)
Rated operational current (Ie) - min	1 A
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 operational voltage (Ue) - min	3 V
Rated operational voltage (Ue) at DC - max	60 V
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 1.6 A gG/gL, Max. Fuse, Electrical specifications for microswitch auxiliary contacts 53-54 and 81-82
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)	0.1 A, 250 V DC, (UL/CSA)
<b>Contacts</b>	
Code number	51E in combination with DILA(C)-40 42 in combination with DILA(C)-31 33 in combination with DILA(C)-22
Control circuit reliability	$\lambda < 5.3 \times 1/10^8$ (1 failure at 19,000,000 operations for U# = 24 V DC, Umin = 17 V, Imin = 1 mA) $\lambda < 1/10^8$ (1 failure at 100,000,000 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)	2
Number of contacts (normally open contacts)	2
<b>Design verification</b>	
Equipment heat dissipation, current-dependent Pvid	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