



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		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
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, 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 - 1.5) mm ² , Screw terminals 2 x (0.75 - 1.5) mm ² , Screw terminals
Terminal capacity (solid)		1 x (0.75 - 2.5) mm ² , Screw terminals 2 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		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 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)		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 (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		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)
Contacts		
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, U _{min} = 17 V, I _{min} = 1 mA) $\lambda < 1/10^8$ (1 failure at 100,000,000 operations for U _# = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 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 (ecI@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