

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



Powering Business Worldwide™

Part no. DILA-XHI31-PI

199318

EL Number

4116744

(Norway)

General specifications	
Product name	Eaton Moeller® series DILA Accessory Auxiliary contact module
Part no.	DILA-XHI31-PI
EAN	4015081974023
Product Length/Depth	54 millimetre
Product height	38 millimetre
Product width	36 millimetre
Product weight	0.051 kilogram
Certifications	VDE 0660 IEC/EN 60947 CSA Class No.: 3211-03 UL 508 CSA File No.: 012528 UL File No.: E29184 UL Category Control No.: NKCR UL CSA CSA-C22.2 No. 14-05 CE marking
Product Tradename	DILA
Product Type	Accessory
Product Sub Type	Auxiliary contact module
Catalog Notes	Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)
Features & Functions	
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
Number of poles	Four-pole
Electric connection type	Spring clamp connection
General information	
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 (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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities		
Terminal capacity (flexible with ferrule)		1 x (0.5 - 1.5) mm ² 1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ² , Push-in terminals, ferrule to DIN 46228-1 1 x (0.5 - 1.5) mm ² , Push-in terminals, ferrule to DIN 46228-4
Terminal capacity (flexible)		1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
Terminal capacity (solid)		1 x (0.5 - 0.25) mm ² 2 x (0.5 - 2.5) mm ² , Control circuit cables
Terminal capacity (solid/stranded AWG)		20 - 14
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)		0.16 A
Rated operational current (I _e)		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 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) 2.5 A at 24 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) 1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) 10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 0.25 A at 220 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)
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 insulation voltage (U _i)		690 V
Rated operational voltage (U _e) at AC - max		500 V
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)		10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)		A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
Communication		
Connection type		Push in terminals
Contacts		
Control circuit reliability		$\lambda < 5 \times 10^{-7}$ (1 failure at 2,000,000 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)		1
Number of contacts (normally open contacts)		3

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 _e at AC-15, 230 V	A	4

Type of electric connection			Spring clamp connection
Model			Clip-on
Mounting method			Front fastening
Lamp holder			None