

Auxiliary contact module, Type: high version, 2 pole, $I_{th}= 16 \text{ A}$, 1 N/O, 1 NC, Front fixing, Screw terminals, MSC



Part no. DILA-XHIT11
Catalog No. 101043
Alternate Catalog No. XTCEXFATC11

Delivery program

Accessories		Auxiliary contact modules				
Description		with interlocked opposing contacts Switching elements according to EN 50005 Version E combinations correspond to EN 50011 and are to be preferred. The DC operated contactor DILA(C)-22 must only be combined with 2-pole auxiliary contacts.				
Function		for combination with electrical wiringlinks				
Number of poles		2 pole				
Connection technique		Screw terminals				
Rated operational current						
Conventional free air thermal current, 1 pole						
Open						
at 60 °C	I_{th}	A	16			
AC-15						
220 V 230 V 240 V	I_e	A	4			
380 V 400 V 415 V	I_e	A	4			
Contacts						
N/O = Normally open		1 N/O				
N/C = Normally closed		1 NC				
Mounting type		Front fixing				
For use with		DILM7... DILM9... DILM12... DILM15... DILL... MSC-D...M7(9, 12, 15)... MSC-R...M7(9, 12)				
Type		high version				
Instructions		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 Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)				

Technical data

General

Standards			IEC/EN 60947, VDE 0660, UL, CSA	
Component lifespan				
at $U_e = 230 \text{ V}$, AC-15, 3 A	Operations	$\times 10^6$	1.3	
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30	
Ambient temperature				
Open		°C	-25 - +60	
Enclosed		°C	-25 - 40	
Ambient temperature, storage		°C	-40 - 80	
Mechanical shock resistance (IEC/EN 60068-2-27)				
Half-sinusoidal shock, 10 ms		g		
Basic unit with auxiliary contact module		g		
N/O contact		g	7	
N/C contact		g	5	
Degree of Protection			IP20	

Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Weight	kg	0.039	
Terminal capacities	mm ²		
Screw terminals			
Solid	mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	
Flexible with ferrule	mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	
Solid or stranded	AWG	18 - 14	
Pozidriv screwdriver	Size	2	
Standard screwdriver	mm	0.8 x 5.5 1 x 6	
Max. tightening torque	Nm	1.2	

Contacts

Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5-1 Annex L)			Yes
N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)			DILM7 - DILM15
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U _i	V AC	690
Rated operational voltage	U _e	V AC	500
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	400
between the auxiliary contacts		V AC	400
Rated operational current		A	
Conventional free air thermal current, 1 pole			
at 60 °C	I _{th}	A	16
AC-15			
220 V 230 V 240 V	I _e	A	4
380 V 400 V 415 V	I _e	A	4
500 V	I _e	A	1.5
DC current			Switch-on and switch-off conditions based on DC-13, time constant as specified.
DC L/R ≤ 15 ms			
Contacts in series:		A	
1	24 V	A	10
1	60 V	A	6
1	110 V	A	3
1	220 V	A	1
DC L/R ≤ 50 ms			
Contacts in series:		A	
3	24 V	A	2.5
3	60 V	A	1
3	110 V	A	0.5
3	220 V	A	0.25
DC-13 (6xP)			
24 V	I _e	A	2.5
60 V	I _e	A	1
110 V	I _e	A	0.5
220 V	I _e	A	0.25
Control circuit reliability	Failure rate	λ	<10 ⁻⁸ , < one failure at 100 million operations (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA) <5.3 x 10 ⁻⁸ , < one failure in 19 millions operations (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 1 mA)
Short-circuit rating without welding			
Short-circuit protection maximum fuse			

500 V	A gG/gL	10
Current heat loss at I_{th}		
AC operated	W	2.6
DC operated	W	2.6
Current heat loss per auxiliary circuit at I_e (AC-15/230 V)	CO	0.16

Rating data for approved types

Auxiliary contacts		
Pilot Duty		
AC operated		A600
DC operated		P300
General Use		
AC	V	600
AC	A	10
DC	V	250
DC	A	1

Design verification as per IEC/EN 61439

Technical data for design verification		
Rated operational current for specified heat dissipation	I_n	A 4
Heat dissipation per pole, current-dependent	P_{vid}	W 0.16
Equipment heat dissipation, current-dependent	P_{vid}	W 0
Static heat dissipation, non-current-dependent	P_{vs}	W 0
Heat dissipation capacity	P_{diss}	W 0
Operating ambient temperature min.		°C -25
Operating ambient temperature max.		°C 60
IEC/EN 61439 design verification		
10.2 Strength of materials and parts		
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties		
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)

Number of contacts as change-over contact		0
Number of contacts as normally open contact		1
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		Screw connection
Model		Top mounting
Mounting method		Front fastening
Lamp holder		None