



Auxiliary contact module, 4 pole, $I_{th}=16\text{ A}$, 3 N/O, 1 NC, Front fixing, Push in terminals, DILM7 - DILM15



Part no. DILM12-XHI31-PI
Catalog No. 199459
Alternate Catalog No. XTCEXFABPI31

Delivery program

Accessories	Auxiliary contact modules with interlocked opposing contacts for standard applications		
Description			
Function			
Number of poles	4 pole		
Connection technique	Push in terminals		
Rated operational current			
Conventional free air thermal current, 1 pole			
Open			
at $60\text{ }^{\circ}\text{C}$	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	3 N/O		
N/C = Normally closed	1 NC		
Mounting type	Front fixing		
Contact sequence			
For use with	DILM7...-PI DILM9...-PI DILM12...-PI DILM15...-PI DILMP20...-PI		
Type	Front mounting auxiliary contact		
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	$^{\circ}\text{C}$	-25 - +60	
Enclosed	$^{\circ}\text{C}$	-25 - 40	
Ambient temperature, storage	$^{\circ}\text{C}$	-40 - 80	
Mounting position			

Mounting position			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
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	0.05
Terminal capacities	mm ²		
Push-in terminals			
Solid		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
flexible		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
flexible with ferrules		mm ²	1 x (0,5 - 1,5) 2 x (0,5 - 1,5)
flexible with ultrasonic welded busbar end		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
flexible with uninsulated wire end ferrule		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
Solid or stranded		AWG	20 - 14
Stripping length		mm	10
Standard screwdriver			3.0 x 0.5
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 - DILM32
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-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)
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			
Operating ambient temperature min.	°C	-25	
Operating ambient temperature max.	°C	60	

Technical data ETIM 7.0

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@ss10.0.1-27-37-13-02 [AKN342013])			
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		Top mounting	
Mounting method		Front fastening	
Lamp holder		None	

Approvals

Product Standards		IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.		E29184
UL Category Control No.		NKCR
CSA File No.		012528
CSA Class No.		3211-03
North America Certification		UL listed, CSA certified
Specially designed for North America		No

Dimensions

