

**Auxiliary contact module, 2 pole,  $I_{th}=16\text{ A}$ , 1 N/O, 1 NC, Front fixing,  
Screw terminals, DILM40 - DILM170, XHIA**



**Part no.** DILM150-XHIA11  
**Catalog No.** 283463  
**Alternate Catalog No.** XTCEXFAG11  
**EL-Nummer (Norway)** 4110362

## Delivery program

Accessories	Auxiliary contact modules with interlocked opposing contacts for standard applications		
Description			
Function			
Number of poles	2 pole		
Connection technique	Screw terminals		
<b>Rated operational current</b>			
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	6
380 V 400 V 415 V	$I_e$	A	4
<b>Contacts</b>			
N/O = Normally open	1 N/O		
N/C = Normally closed	1 NC		
Mounting type	Front fixing		
For use with	DILM40... DILM50... DILM65... DILM72... DILM80... DILM95... DILM115... DILM150... DILM170... DILMP63... DILMP80... DILMP125... DILMP160... DILMP200... DILMF40... DILMF50... DILMF65... DILMF80... DILMF95... DILMF115... DILMF150...		
Type	Front mounting auxiliary contact		
Instructions	Interlocked opposing contacts according to IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact module 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			
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	0.03	
Terminal capacities	mm <sup>2</sup>		
Screw terminals			
Solid	mm <sup>2</sup>	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	
Flexible with ferrule	mm <sup>2</sup>	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)			DILM40 - DILM170
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U <sub>i</sub>	V AC	690
Rated operational voltage	U <sub>e</sub>	V AC	500
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	440
between the auxiliary contacts		V AC	440
Rated operational current		A	
Conventional free air thermal current, 1 pole			
at 60 °C	I <sub>th</sub>	A	16
AC-15			
220 V 230 V 240 V	I <sub>e</sub>	A	6
380 V 400 V 415 V	I <sub>e</sub>	A	4
500 V	I <sub>e</sub>	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
Control circuit reliability	Failure rate	λ	<10 <sup>-8</sup> , < one failure at 100 million operations (at U <sub>e</sub> = 24 V DC, U <sub>min</sub> = 17 V, I <sub>min</sub> = 5.4 mA)
Short-circuit rating without welding			
Short-circuit protection maximum fuse			
500 V		A gG/gL	16
Current heat loss at I <sub>th</sub>			
AC operated		W	3.7
DC operated		W	3.7
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)		CO	0.5

## Rating data for approved types

Auxiliary contacts			
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Pilot Duty		
AC operated		A600
DC operated		P300
General Use		
AC	V	600
AC	A	15
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	0.23
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)	
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	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 6

Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Front fastening
Lamp holder		None