DATASHEET - DILM150-XHI22



Auxiliary contact module, 4 pole, $lth=16\,A$, $2\,N/0$, $2\,NC$, Front fixing, Screw terminals, DILM40 - DILM170



Part no. DILM150-XHI22 Catalog No. 277950 Alternate Catalog XTCEXFBG22

No.

EL-Nummer 4130497

(Norway)

Delivery program

Delivery program			
Accessories			Auxiliary contact modules
Description			with interlocked opposing contacts
Function			for standard applications
Number of poles			4 pole
Connection technique			Screw terminals
Rated operational current			
Conventional free air thermal current, 1 pole			
Open			
at 60 °C	I _{th}	Α	16
AC-15			
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _e	Α	4
Contacts			
N/O = Normally open			2 N/O
N/C = Normally closed			2 NC
Mounting type			Front fixing
Contact sequence			13 L21 L31 L43 -\
For use with			DILM40 DILM50 DILM65 DILM72 DILM80 DILM85 DILM15 DILM150 DILM170 DILM170 DILM170 DILMP63 DILMP63 DILMP80 DILMP80 DILMP160 DILMP160 DILMF40 DILMF50 DILMF50 DILMF50 DILMF50 DILMF50 DILMF50 DILMF50 DILMF50 DILMF95 DILMF95 DILMF15 DILMF15 DILMF15 DILMF150
Туре			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 V, AC-15, 3 A	Operations	x 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	0.055
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-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_{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	440
between the auxiliary contacts		V AC	440
Rated operational current		Α	
Conventional free air thermal current, 1 pole			
at 60 °C	I _{th}	Α	16
AC-15			
220 V 230 V 240 V	l _e	Α	6
380 V 400 V 415 V	l _e	Α	4
500 V	l _e	Α	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:		Α	
1	24 V	Α	10
1	60 V	Α	6
1	110 V	Α	3
1	220 V	Α	1
Control circuit reliability	Failure rate	λ	$<\!10^{-8}$, $<$ one failure at 100 million operations (at Ue $=24$ 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	16
Current heat loss at I _{th}			
AC operated		W	3.7

Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	0.5		
Rating data for approved types					
Auxiliary contacts					
Pilot Duty					
AC operated			A600		
DC operated			P300		
General Use					
AC		V	600		
AC		Α	15		
DC		V	250		
DC		Α	1		

3.7

Design verification as per IEC/EN 61439

DC operated

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observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instru	10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must observed.
	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must observed.
icalict (IL/ 13 observed.	10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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		2
Number of contacts as normally closed contact		2
Number of fault-signal switches		0
Rated operation current le at AC-15, 230 V	Α	6
Type of electric connection		Screw 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

Additional product information (links)

Motor starters and "Special Purpose Ratings" for the North American market	http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf
Switchgear of Power Factor Correction Systems	http://www.moeller.net/binary/ver_techpapers/ver934en.pdf
X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely	http://www.moeller.net/binary/ver_techpapers/ver938en.pdf
Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions	http://www.moeller.net/binary/ver_techpapers/ver944en.pdf
Effect of the Cabel Capacitance of Long Control Cables on the Actuation of Contactors	http://www.moeller.net/binary/ver_techpapers/ver949en.pdf
Switchgear for Luminaires	http://www.moeller.net/binary/ver_techpapers/ver955en.pdf
Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts	http://www.moeller.net/binary/ver_techpapers/ver956en.pdf
The Interaction of Contactors with PLCs	http://www.moeller.net/binary/ver_techpapers/ver957en.pdf
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf