DATASHEET - DILA-XHIC02



Auxiliary contact module, 2 pole, lth= 16 A, 2 NC, Front fixing, Springloaded terminals, DILA, DILM7 - DILM38



Part no. Catalog No. Alternate Catalog	DILA-XHICO2 276526 XTCEXFACCO2
No.	
EL-Nummer	4110267
(Norway)	

Delivery program

Accessories Acce	benvery program			
Switching elements according to EN 2003, and are to be preferred. The Discontractor DUALP-22 must any be calculated with 2 goals accounted to DUALP-22 must any be calculated	Accessories			Auxiliary contact modules
Number of poles 2 pole Convertional technique Spring-loaded terminals Rated operational current Spring-loaded terminals Open Image: Spring-loaded terminals Ap 0: 5 Image: Spring-loaded terminals 200 / 200 / 100	Description			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
Convertional current look Series - S	Function			for standard applications
Rated operational current 1 pole Image: Pole	Number of poles			2 pole
Conventional free air thermal current, 1 pole Image: 1 minimum current, 1 pole Image: 1 minimum current, 1 pole 0 on 1 minimum current, 1 pole 1 minima current, 1 pole 1 minimum curr	Connection technique			Spring-loaded terminals
Open at 60 °C No. A Image: Second	Rated operational current			
is 80 °CisisisAC 15IsIsIs200 V 200 V 200 V 40 V 415 VIsA4Contact SIsAIsNC = Normally closedIsIs2 NCMuning typeIsIsIsIsContact sequenceIsIsIsIsFor tisingIsIsIsIsFor tisingIsIsIsIsContact sequenceIsIsIsIsFor tisingIsIsIsIsFor tisingIsIsIsIsFor tise withIsIsIsIsFor tise withIsIsIsIs </td <td>Conventional free air thermal current, 1 pole</td> <td></td> <td></td> <td></td>	Conventional free air thermal current, 1 pole			
AC-15 Image: Contract S Image	Open			
220 V230 V240 V415 V In A A A 380 V400 V415 V In A A Contacts In A A NCE Hormahy cloaed In In In Meximity pae In In In In Contacts sequence In In In In For use with In In In In In For use with In	at 60 °C	I _{th}	А	16
S00 V 401 5 V 6 A Contacts 2 NC Mouring type 2 NC Contact sequence Image: Source in the sequence Image: Source in the sequence For use with Image: Source in the sequence Image: Source in the sequence in the sequence For use with Image: Source in the sequence in the sequ	AC-15			
Contacts SNC = Normally closed SNC = Normally closed SNC = Normally closed Mounting type Font Exist Font Exist Font Exist Contacts sequence Image: Sister S	220 V 230 V 240 V	le	А	4
NCE - Normally closed Image: Contact sequence For fixing Contact sequence Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact sequence Image: Contact sequence Image: Contact sequence For use with Image: Contact moutines usuliary contact Im	380 V 400 V 415 V	I _e	А	4
Mounding type For thing Context sequence Image: Second	Contacts			
Contact sequence Image: Single Si	N/C = Normally closed			2 NC
For use with Image: Signal	Mounting type			Front fixing
TypeFont mounting auxiliary contactInstructionsImage for the integrated auxiliary contact of the DILM 7 - DILM 7				-7-7
Instructions Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside the auxiliary 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) Code number and version of combination Code number and version of combination	For use with			DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)15 DILM(C)25 DILM(C)25 DILM(C)32 DILM720 DILM720 DILM721 DILM745 DILMF17 DILMF17 DILMF17 DILMF17 DILMF17
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) Code number and version of combination	Туре			Front mounting auxiliary contact
	Instructions			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
Distinctive number 42 E	Code number and version of combination			
	Distinctive number			42 E

with basic device	DILA(C)-40
	33
with basic device	DILA(C)-31
	24
with basic device	DILA(C)-22

Technical data General

General			
Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10 ⁶	10
DC operated	Operations	x 10 ⁶	10
Component lifespan			
at $U_e = 230 \text{ V}, \text{ AC-15}, \text{ 3 A}$	Operations	x 10 ⁶	1.3
Maximum operating frequency	Operations/h		9000
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
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	0.045
Terminal capacities		mm ²	
Screw terminals			
Terminal screw			M3.5
Spring-loaded terminals			
Flexible with ferrule		mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
Solid or stranded		AWG	18 - 14
Standard screwdriver		mm	0.6 × 3.5
Contacts			
Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5 Annex L)	5-1		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	Ui	V AC	690
Rated operational voltage	Ue	V AC	500
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	400
between the auxiliary contacts			400
		V AC	400

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	l _e	A	4
500 V	l _e	A	1.5
DC current	-e		
			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
2	60 V	A	10
1	110 V	A	3
3	110 V	A	6
1	220 V	A	1
3	220 V	A	5
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	А	0.25
DC-13 (6xP)			
24 V	۱ _e	А	2.5
60 V	Ι _e	А	1
110 V	le	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		Α	1

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	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 7.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

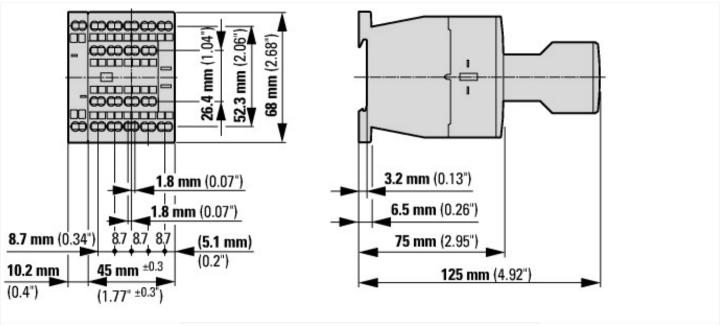
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as change-over contact		0
Number of contacts as normally open contact		0
Number of contacts as normally closed contact		2
Number of fault-signal switches		0
Rated operation current le at AC-15, 230 V	А	4
Type of electric connection		Spring clamp connection
Model		Top mounting
Mounting method		Front fastening
Lamp holder		None

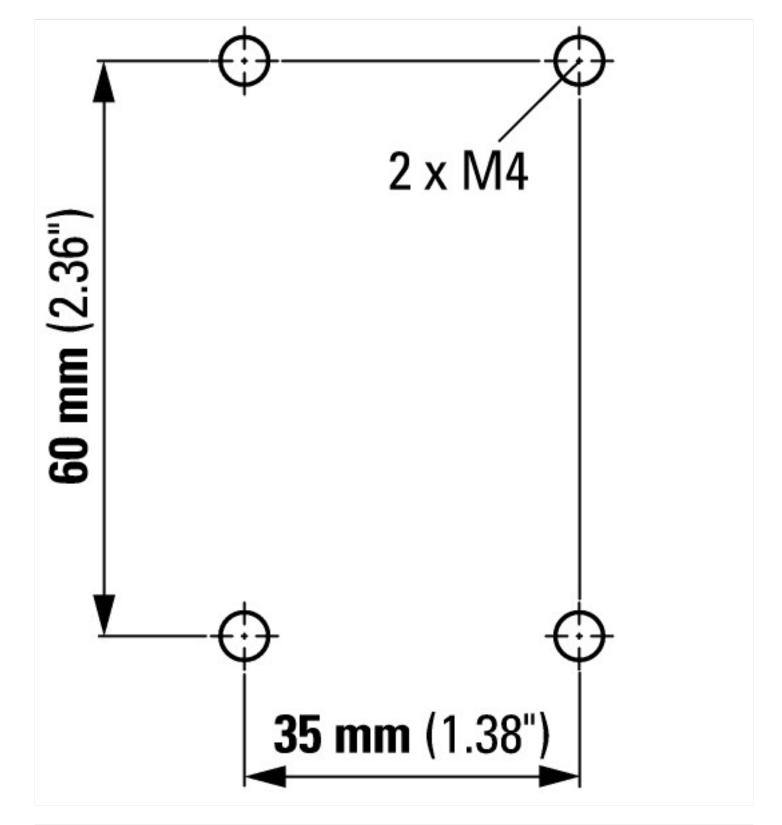
Approvals

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



Contactor with auxiliary contact module



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