DATASHEET - DILA-XHIC22



Auxiliary contact module, 4 pole, lth= 16 A, 2 N/O, 2 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38



Part no.	DILA-XHIC22
Catalog No.	276532
Alternate Catalog	XTCEXFACC22
No.	
EL-Nummer	4110273
(Norway)	

Delivery program

Function For the order of poles For the order of pole of pole of the order of t				
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Connection set bring under set in thema current, pole Person Spring loaded terminals Convertional train thema current, pole Person Person Queen Person Person at 80 °C Person Person 280 V	Function			for standard applications
Rated operational current. 1 pole Person Pe	Number of poles			4 pole
Conventional free air thermal current, 1 pole Image: 1 minute of the same	Connection technique			Spring-loaded terminals
Open Image: Marcine in the second s	Rated operational current			
i at 00 °C is	Conventional free air thermal current, 1 pole			
AC-15 Image: Book of the image	Open			
200 200 V240 V410 V In A A 380 V400 V415 V In A A Contacts In I	at 60 °C	I _{th}	А	16
380 400 V415V Image: state	AC-15			
Contacts 2N0 N0 = Normally open 2N0 Mourding type For toxing Contact sequence Image: Contact sequence For use with Image: Contact sequence For use with DILA(C) DILM(C)? DILA(C) DILM(C)? DILA(C) DILM(C)? DILM(C)? DILM(C)?	220 V 230 V 240 V	I _e	А	4
N0 = Normally open 2 N0 N0 = Normally closed 2 NC Mouning type Front fxing Contact sequence Image: State St	380 V 400 V 415 V	I _e	А	4
NC = Normally closed 2 NC Mounting type Fort fixing Contact sequence	Contacts			
Mounting type Font fixing Contact sequence	N/O = Normally open			2 N/O
Contact sequence Image: Sequence sequence Image: Sequence s	N/C = Normally closed			2 NC
For use with Image:	Mounting type			Front fixing
Type For the outbrace of the out	Contact sequence			
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 Code number and version of combination Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) Distinctive number Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) with basic device Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) with basic device Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) with basic device Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) with basic device Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) with basic device Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) with basic device Image: Content integrated auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)				DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)15 DILM(C)25 DILM(C)25 DILM(C)32 DILM(C)32 DILMP32 DILMP32 DILMP45 DILMF14 DILMF1 DILMF17 DILMF17 DILMF17 DILMF125 DILMF32
Code number and version of combination E E auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) Distinctive number E E E with basic device E DILA(C)-40 E with basic device S S S with basic device E S S with basic device S S S				
Distinctive number Image: Constraint of the second of th	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
with basic deviceImage: Constraint of the second of the secon	Code number and version of combination			
with basic device 53 DILA(C)-31	Distinctive number			62E
with basic device DILA(C)-31	with basic device			DILA(C)-40
				53
44	with basic device			DILA(C)-31
				44

with	basic	device	

DILA(C)-22

Technical data

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 V, AC-15, 3 A	Operations	x 10 ⁶	1.3
Maximum operating frequency	Operations/h	XIU	9000
Climatic proofing	operations/in		Damp heat, constant, to IEC 60068-2-78
			Damp heat, constant, 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	0.057
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 x 3.5
Contacts			
Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5- Annex L)	-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			111/3
Rated insulation voltage	Ui	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	
Rated operational current Conventional free air thermal current, 1 pole		A	
	I _{th}	A	16

09/12/2021

220 V/ 230 V/ 240 V/	1	٨	4
220 V 230 V 240 V	l _e	A	
380 V 400 V 415 V	le	A	4
500 V	le	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
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	A	0.25
DC-13 (6xP)			
24 V	l _e	A	2.5
60 V	l _e	А	1
110 V	I _e	А	0.5
220 V	I _e	А	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		А	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	In	Α	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

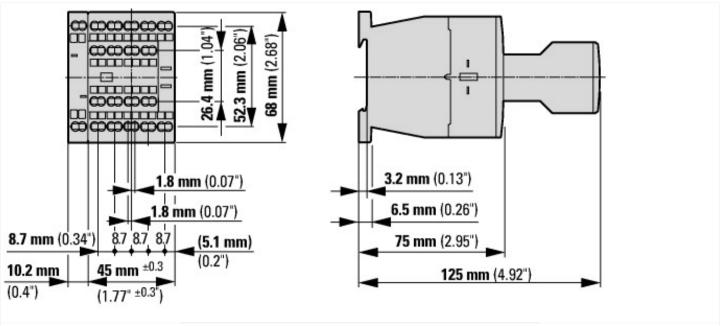
C/EN 61439 design verification	
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials 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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must 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

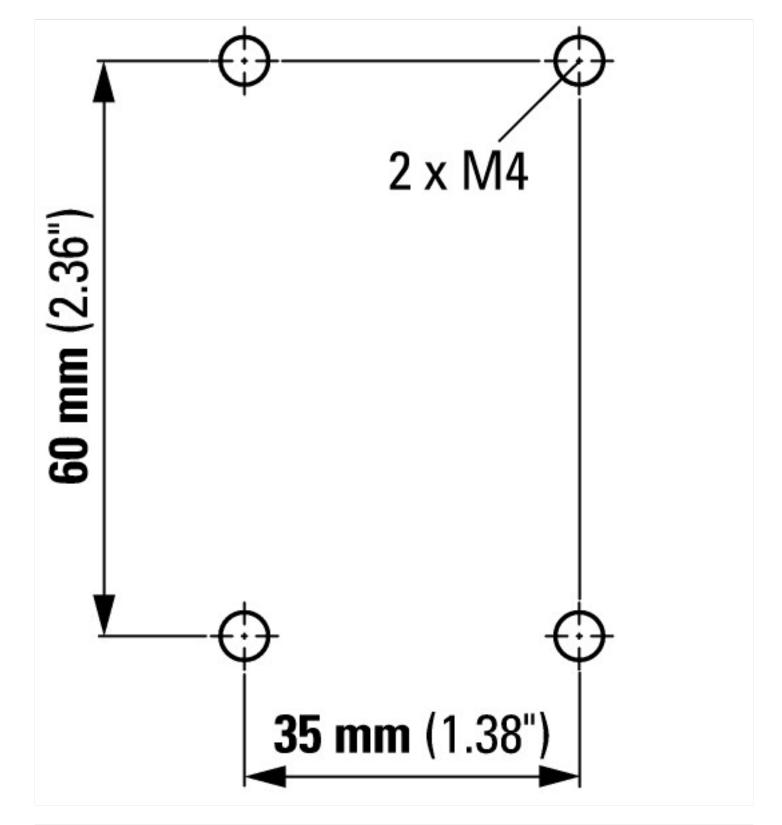
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])			
Number 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		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