DATASHEET - DILA-XHIC04



Auxiliary contact module, 4 pole, Ith= 16 A, 4 NC, Front fixing, Springloaded terminals, DILA, DILM7 - DILM38



DILA-XHIC04 Part no. 276530 Catalog No. **Alternate Catalog** XTCEXFACC04

No.

EL-Nummer 4110271

		Auxiliary contact modules
		with interlocked opposing contacts 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 contacts.
		for standard applications
		4 pole
		Spring-loaded terminals
I _{th}	Α	16
l _e	Α	4
I _e	Α	4
		4 NC
		Front fixing
		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
		DILA(C) DILM(C)7 DILM(C)9 DILM(C)15 DILM(C)17 DILM(C)25 DILM(C)32 DILMS8 DILMP20 DILMP45 DILMP45 DILMF11 DILMF11 DILMF152
		Front mounting auxiliary contact 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)
		44E
		DILA(C)-40
		35
	I _e	I _e A

Technical data General

		IEC/EN 60947, VDE 0660, UL, CSA
Operations	x 10 ⁶	10
Operations	x 10 ⁶	10
Operations	x 10 ⁶	1.3
Operations/h		9000
		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
	°C	-25 - +60
	°C	- 25 - 40
	°C	- 40 - 80
	g	
	g	7
	g	5
		IP20
		Finger and back-of-hand proof
	kg	0.056
	mm^2	
		M3.5
	mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
	AWG	18 – 14
	mm	0.6 x 3.5
1		Yes
		DILM7 - DILM32
U _{imp}	V AC	6000
		III/3
Ui	V AC	690
U _e	V AC	500
	V AC	400
	V AC	400
	A	
I _{th}		16
	Operations Operations Operations/h	Operations x 106 Operations/h Operations/h °C °C °C °C °C g g g g kg mm² AWG mm 1 Uimp V AC Ui V AC Ue V AC

220 V 230 V 240 V	l _e	Α	4
380 V 400 V 415 V	Ie	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
2	60 V	Α	10
1	110 V	Α	3
3	110 V	Α	6
1	220 V	Α	1
3	220 V	Α	5
DC L/R ≦ 50 ms			
Contacts in series:		Α	
3	24 V	Α	2.5
3	60 V	Α	1
3	110 V	Α	0.5
3	220 V	Α	0.25
DC-13 (6xP)			
24 V	I _e	Α	2.5
60 V	I _e	Α	1
110 V	I _e	Α	0.5
220 V	I _e	Α	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			(at 0 ₆ = 24 V 00, 0 _{min} = 17 V, 1 _{min} = 3.4 iiA)
Short-circuit rating without weighing Short-circuit protection maximum fuse			
500 V		A gG/gL	10
Current heat loss at I _{th}		A gu/gL	
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		CO	0.10
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		A	10
DC		V	250
-			

Design verification as per IEC/EN 61439

DC

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

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

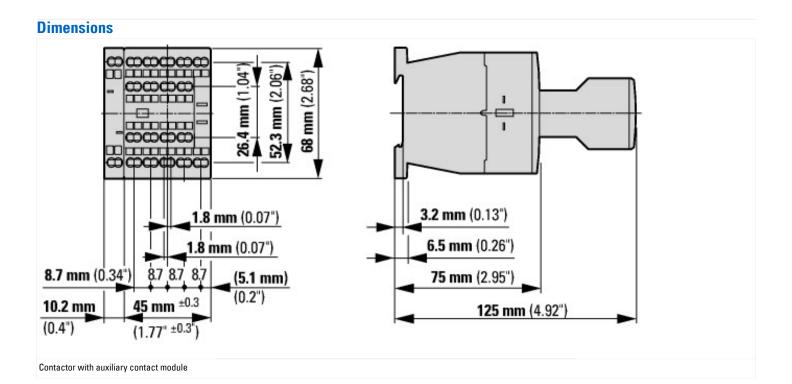
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

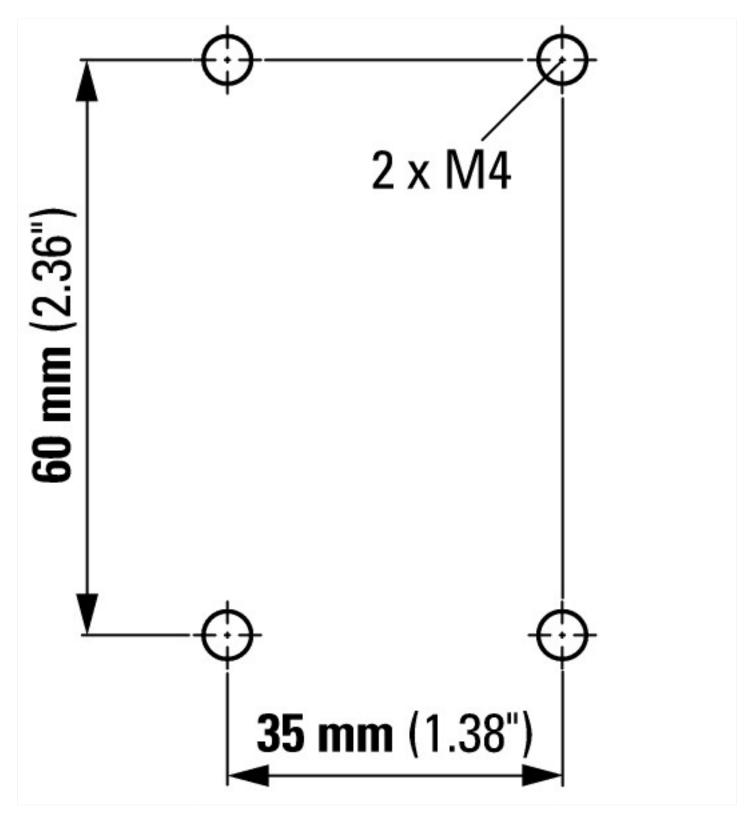
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

	0
	0
	4
	0
Α	4
	Spring clamp connection
	Top mounting
	Front fastening
	None
	A

Approvals

Product Standards	IEC/EN 60047 4 1.111 500, CCA 622 2 No. 14 05; CE marking
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)

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IL03407013Z (AWA2100-2126) Contactors	
IL03407013Z (AWA2100-2126) Contactors	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407013Z2020_05.pdf
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