DATASHEET - DILA-XHIV11



Auxiliary contact module, 2 pole, lth= 16 A, 1 N/OE, 1 NCL, Front fixing, Screw terminals, DILA, DILM7 - DILM38



Part no. DILA-XHIV11
Catalog No. 276423
Alternate Catalog XTCEXFALC11

No.

EL-Nummer 4110266

	EL-Nummer (Norway)	4110266			
Delivery program					
Accessories					Auxiliary contact modules
Function					for standard applications
Number of poles					2 pole
Connection technique					Screw terminals
Rated operational current	t				
Conventional free air thermal	current, 1 pole				
Open					
at 60 °C			I _{th}	Α	16
AC-15					
220 V 230 V 240 V			l _e	Α	4
380 V 400 V 415 V			l _e	Α	4
Contacts					
N/O _E : NO early-make					1 N/0 _E
NC _L =NC late-break					1 NC _L
Mounting type					Front fixing
Contact sequence					- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
For use with					DILA(C) DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)15 DILM(C)15 DILM(C)25 DILM(C)32 DILM(C)32 DILM720 DILMP32 DILMP45 DILL DILMF8 DILL DILMF8 DILMF11 DILMF11 DILMF17 DILMF25 DILMF25 DILMF25 DILMF32
Туре					Front mounting auxiliary contact
Code number and version	of combination				
Distinctive number					51
with basic device					DILA(C)-40
					42
with basic device					DILA(C)-31
					33
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 V, AC-15, 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			→ 1.
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	0.039
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
Terminal screw			M3.5
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)			No
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	U _e	V AC	500
Safe isolation to EN 61140	Ü		
between coil and auxiliary contacts		V AC	400
between the auxiliary contacts		V AC	400
Rated operational current		A	
Conventional free air thermal current, 1 pole			
at 60 °C	I _{th}	A	16
22.00	·ui	,,	-

AC-15			
220 V 230 V 240 V	I _e	Α	4
380 V 400 V 415 V	l _e	Α	4
500 V	I _e	Α	1.5
DC current			
			Switch-on and switch-off conditions based on DC-13, time constant as specifie
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 Ue = 24 V DC, U_{min} = 17 V, I_{min} = 5.4 mA)
hort-circuit rating without welding			
Short-circuit protection maximum fuse			
500 V		A gG/gL	10
urrent heat loss at I _{th}			
AC operated		W	2.6
DC operated		W	2.6
Current heat loss per auxiliary circuit at $I_{\rm e}$ (AC-15/230 V)		CO	0.16
ating data for approved types			
uxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
Conoral Uco			

Auxiliary contacts		
Pilot Duty		
AC operated		A600
DC operated		P300
General Use		
AC	V	600
AC	А	10
DC	V	250
DC	А	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
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)

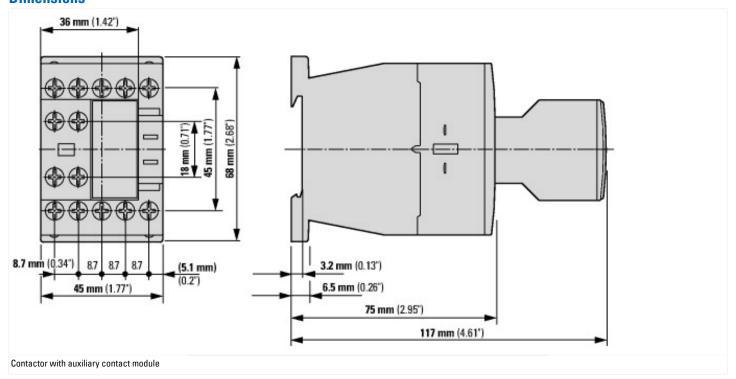
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

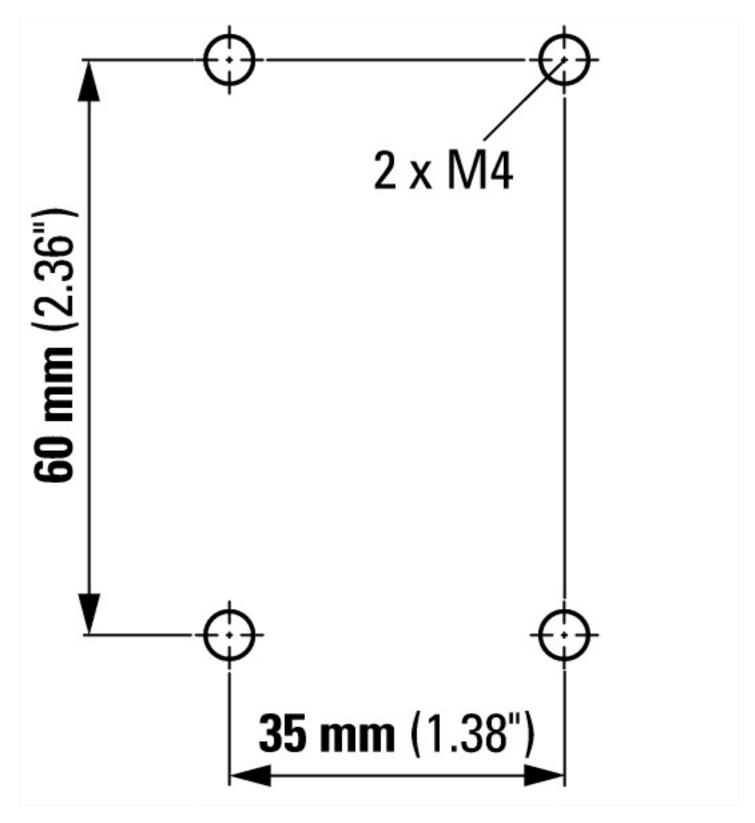
	0
	1
	1
	0
Α	4
	Screw connection
	Top mounting
	Front fastening
	None
	A

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





Additional product information (links)

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