DATASHEET - DILA-XHIV11





Part no. DILA-XHIV11
Catalog No. 276423
Eaton Catalog No. XTCEXFALC11
EL-Nummer 4110266
(Norway)

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Product range Accessaries Admillary context modules Function Number of pulses Connection trechrogue Rated operational current Conventional free six thurnal current, 1 pole Open at 10°C AC-15 20 V280 V40 V I I AC-18 20 V280 V40 V I I AC-19 A	Delivery program			
Function Number of poles Connection technique Rated operational current Conventional free air thermal current, I pole Opan at 69 °C AC-15 209 V 239 V 380 V Is 30 V 400 V 415 V Is NOg-NO early-make Nog-NO early-	Product range			
Number of poles Connection bethinque Rated operational current Conventional free air thermal current, 1 pole Open at 80 °C I _a A 15 AC-15 220 V220 V2ab V I _a A 4 380 V400 V415 V I _a A 4 Note: No sarly-make NC-15 I NC Contacts Note: No sarly-make NC-15 I NC Contact sequence For use with For use with Type Contact sequence Type Code number and version of combination Disinctive number with basic device With basic device Version Sarly s	Accessories			Auxiliary contact modules
Connection technique Rated operational current Conventional foce air thermal current, Toole Open as 59 °C Es A 18 AC-15 220 Y 200 Y 200 V E A 4 280 Y 400 Y 15 V E A 4 Contacts NUL; NO centr-make NUL; NO centr-make NUL; NO centr-make Noming upos Contact asquence Contact asquence For use with For the with basic device Value	Function			for standard applications
Rated operational current Conventional free air themal current, I pole Quen at 80°C				
Conventional free air thermal current, 1 pole Open at 80 °C AC-15 220 V 220 V 240 V Ie A 4 380 V 400 V 415 V Ie A 4 Thick Contacts NCg - NC party-make NC party party NC party-make NC party party NC party party party NC party party NC party party party NC party party NC party party party NC party	Connection technique			Screw terminals
Open 4m A 16 AC-15 220 V 230 V 240 V l _m A 4 380 V 400 V 415 V l _e A 4 Contacts NU _C - ND learly-make T NO _C 1 NO _C NC-en'l Clate-break T NO _C Front fixing Cortact sequence T S B 666 557 655 For use with DILAICI DILAICI Politicity or under with last cleave the make the politic of the break with basic device T S T S T G	Rated operational current			
act 60 °C Me Act 15 220 V 220 V 240 V Ie Act 4 380 V 400 V 415 V Ie Act 4 Contacts InVOE InVOE NOE, INC lards-break InVOE InVOE Mounting type InvOE Font fixing Contact sequence InvOE Font fixing For use with InvOE InvOE For use with InvOE InvOE InvOE InvOE InvOE InvO	Conventional free air thermal current, 1 pole			
AC-15 220 V 220 V 240 V I _e A 4 4 4 4 4 4 4 4 1 1 Mode of Mode	Open			
220 V 230 V 240 V 115 V 1	at 60 °C	I _{th}	Α	16
Contacts A 4 4 N/O∈ NO early-make 1 N/O∈ 1 N/O∈ NC_eNC late-break 1 NC_ 1 NC_ Mounting type Front fixing 1 NO_ Contact sequence 1 NO_ 1 NO_ For use with 1 NO_ 1 NO_ For use with 1 NO_ 1 NO_ DILMO[7 DILMO[7 DILMO[7 DILMO[8 DILMO[8 DILMO[8 DILMO[8 DILMO[8 DILMO[8 <tr< td=""><td>AC-15</td><td></td><td></td><td></td></tr<>	AC-15			
Contacts NOg: NO garly-make 1 NOg. NC_I=NC late-break 1 NC_I Mounting type Front fixing Contact sequence 57 65 For use with DILAC(D.)	220 V 230 V 240 V	l _e	Α	4
N/O _E NO early-make	380 V 400 V 415 V	l _e	Α	4
NCL=NC late-break Mounting type Contact sequence For use with DILA(C) DILM(G)	Contacts			
Mounting type Front fixing Contact sequence 157 65 For use with DILA(C) DILM(C)7 DILM(C)8 DILM(C)15 DILM(C)15 DILM(C)15 DILM(C)15 DILM(C)25	N/O _E : NO early-make			1 N/0 _E
Contact sequence For use with For use with DILA(C) DILM(C)? DILM(C)?.	NC _L =NC late-break			1 NC _L
For use with DILA(C) DILM(C) DI	Mounting type			Front fixing
DILM(CI) DILM(CI) 2 DILM(CI) 2 DILM(CI) 2 DILM(CI) 2 DILM(CI) 3 DILM(CI) 2 DILM(CI) 2 DILM(CI) 2 DILM(CI) 2 DILM(CI) 2 DILMP20 DILMP20 DILMP20 DILMP20 DILMP35 DILMP35 DILMP35 DILMP36 DILMFI1 DILMFI1 DILMFI1 DILMFI1 DILMFI2 DILMFI2 DILMFI2 DILMFI2 DILMF20 DI				-\frac{1}{58} \frac{1}{66}
Code number and version of combination 51 Distinctive number 51 with basic device DILA(C)-40 42 42 with basic device DILA(C)-31 33 33	For use with			DILM(C)7 DILM(C)9 DILM(C)15 DILM(C)15 DILM(C)25 DILM(C)32 DILM(C)32 DILM720 DILMP20 DILMP45 DILMP45 DILMF41 DILMF8 DILMF11 DILMF11 DILMF17 DILMF17 DILMF25
Distinctive number with basic device DILA(C)-40 42 with basic device DILA(C)-31 33				Front mounting auxiliary contact
with basic device DILA(C)-40 42 with basic device DILA(C)-31 33	Code number and version of combination			
42 with basic device DILA(C)-31 33	Distinctive number			51
with basic device DILA(C)-31 33	with basic device			DILA(C)-40
33				42
	with basic device			DILA(C)-31
with basic device DILA(C)-22				33
	with basic device			DILA(C)-22

Technical data

Electrical specifications for standard auxiliary contacts

Electrical specifications for standard auxiliary contacts			
Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5-Annex L) $$	1		No
N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)			DILM7 - DILM32
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	400
between the auxiliary contacts		V AC	400
Rated operational current		Α	
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	I _e	Α	4
500 V	I _e	Α	1.5
DC current	Ü		
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	Α	3
3	110 V	A	6
1	220 V	Α	1
3	220 V	Α	5
DC L/R ≦ 50 ms			
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	l _e	Α	2.5
60 V	l _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)
Component lifespan			
at U _e = 230 V, AC-15, 3 A	Operations	x 10 ⁶	1.3
Short-circuit rating without welding			
max. fuse		A gG/gL	10
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		Α	10
DC		V	250
DC		Α	1

De	sian	verification	as	per	IEC/E	N 61439

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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 switch gear must be observed. $\label{eq:specification}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:specifications}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

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

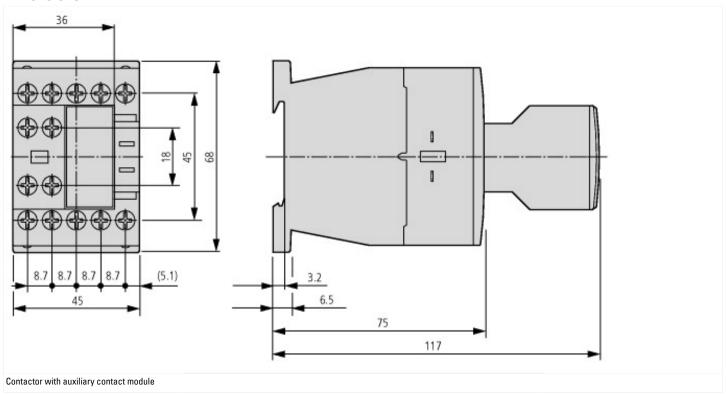
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl.@ss8.1-27-37-13-02 [AKN342010])

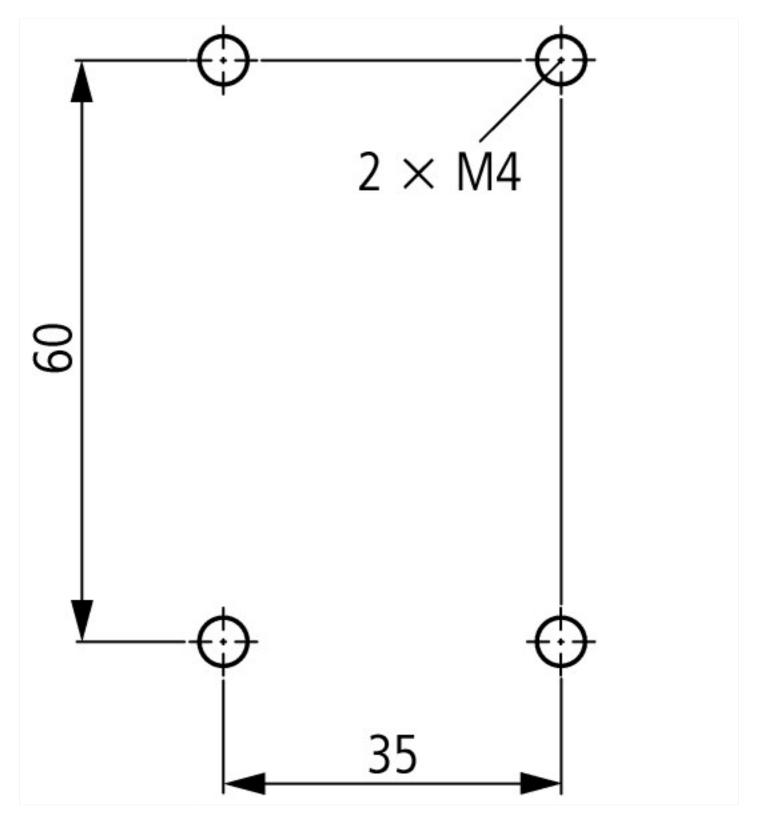
(eci@ssa.i-2/-3/-13-02 [Akin342010])		
Number of contacts as change-over contact		0
Number of contacts as normally open contact		1
Number of contacts as normally closed contact		1
Rated operation current le at AC-15, 230 V	А	4
Type of electric connection		Screw connection
Model		Top mounting

Approvals

PP	
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

Dimensions





Additional product information (links)

Additional product informat	ion (mixo)	
IL03407013Z (AWA2100-2126) Contactors		
IL03407013Z (AWA2100-2126) Contactors	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407013Z2018_04.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	
Motor starters and "Special Purpose Ratings" for the North American market	http://www.moeller.net/binary/ver_techpapers/ver953en.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