DATASHEET - DILA-XHI22



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



Part no.	DILA-XHI22
Catalog No.	276426
Alternate Catalog	XTCEXFAC22
No.	
EL-Nummer	4130217
(Norway)	

Delivery program

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Connection technique Serve terminals Rated operational current Delivery Convertional fee air themals current, topia Serve terminals Open In Action In <td>Function</td> <td></td> <td></td> <td>for standard applications</td>	Function			for standard applications
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Conventional free air thermal current, 1 pole Image: 1 minute of the set of the	Connection technique			Screw terminals
Open 40 °C 40 16 AC-15	Rated operational current			
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380 V 400 V 415 V A 4 Contacts V A	AC-15			
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Muning type Fort fixing Contact sequence	N/O = Normally open			2 N/O
Contact sequence Image: Contact sequence	N/C = Normally closed			2 NC
For use with Image: Content of Combination For use with Image: Content of Combination Type For the content of Combination Image: Content of Combination Example of Content of Combination Districtive number Example of Content of Combination Districtive number Example of Content of Combination Mith basic device Example of Content of	Mounting type			Front fixing
Image: Section of combination Image: Section of combination Image: Section component Section Section component Image:	Contact sequence			
Instructions Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside thauxiliary 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 Image: Comparison of Combination Image: Comparison of Combination Distinctive number Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination Image: With basic device Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination Image: With basic device Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination Image: With basic device Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination Image: With basic device Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination Image: With basic device Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination Image: With basic device Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination Image: With basic device Image: Comparison of Combination Image: Comparison of Combination Image: Comparison of Combination	For use with			DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)17 DILM(C)25 DILM(C)25 DILM(C)32 DILM(C)32 DILMP20 DILMP20 DILMP32 DILMP45 DILMF14 DILMF17 DILMF17 DILMF17 DILMF17 DILMF17
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with basic device DILA(C)-40 with basic device 53 DILA(C)-31	Code number and version of combination			
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				53
44	with basic device			DILA(C)-31
				44

with	basic	device	

DILA(C)-22

Technical data General

Standards Inclusion Inclusion Inclusion Inclusion Litegam, machanical Operated Operated 0	
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Maximum operating frequency Operationsh Image: Second sec	
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Ambient temperature Damp heat, cyclic, to IEC 60068-2-30 Ambient temperature ************************************	
OpenC25 - 60Enclosed- 25 - 40Ambient emperature, storage- 26Mounting position- 40 - 80Mounting position	
InclosedIC-25 - 40Ambient temperature, storageIC-40 - 80Mounting positionIC-40 - 80Mounting positionIC-40 - 80Mounting positionIC-40 - 80Mounting positionICICMechanical shock resistance (IEC/EN 60068-2-27)ICICHalf-sinusoidal shock, 10 msICICBasic unit with auxiliary contact moduleICICN/O contactICICN/O contactICICN/C contactICICPotection against direct contact when actuated from front (EN 50274)ICWeightICICRotanical shock, 10 msICBasic unit with auxiliary contact moduleICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated from front (EN 50274)ICMulticol against direct contact when actuated	
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Half-sinusoidal shock, 10 ms Image: mathematical shock, 10 ms Basic unit with auxiliary contact module g N/O contact g N/O contact g N/C contact g Portection Protection against direct contact when actuated from front (EN 50274) Weight G Terminal capacities mm²	
Basic unit with auxiliary contact module g N/O contact g N/O contact g N/C contact g Degree of Protection P20 Protection against direct contact when actuated from front (EN 50274) hg Weight kg Terminal capacities mm ²	
N/O contact g 7 N/C contact g 5 Degree of Protection Protection against direct contact when actuated from front (EN 50274) P20 Weight kg 0.49 Terminal capacities mm ²	
N/C contact g Degree of Protection Protection against direct contact when actuated from front (EN 50274) IP20 Weight Finger and back-of-hand proof Terminal capacities Imm ²	
Degree of Protection IP20 Protection against direct contact when actuated from front (EN 50274) Finger and back-of-hand proof Weight kg 0.049 Terminal capacities mm ²	
Protection against direct contact when actuated from front (EN 50274) Image: Finger and back-of-hand proof Weight kg 0.049 Terminal capacities mm ²	
Weight kg 0.049 Terminal capacities mm ²	
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 Yes Annex L)	
N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)	
Rated impulse withstand voltage U _{imp} VAC 6000	
Overvoltage category/pollution degree III/3	
Rated insulation voltage Ui VAC 690	
Rated operational voltage Ue VAC 500	
Safe isolation to EN 61140	
between coil and auxiliary contacts VAC 400	
between the auxiliary contacts VAC 400	
Rated operational current A	

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)

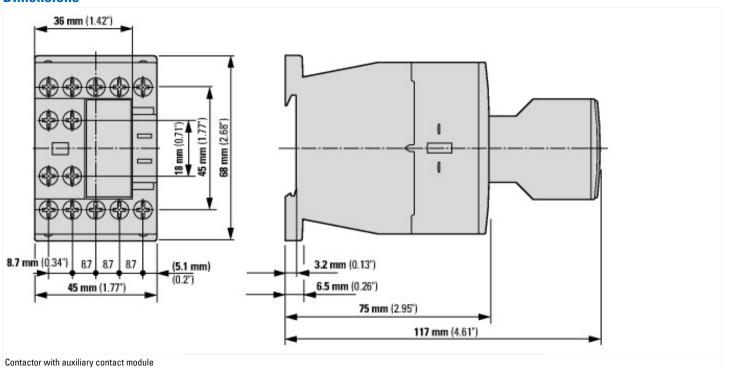
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

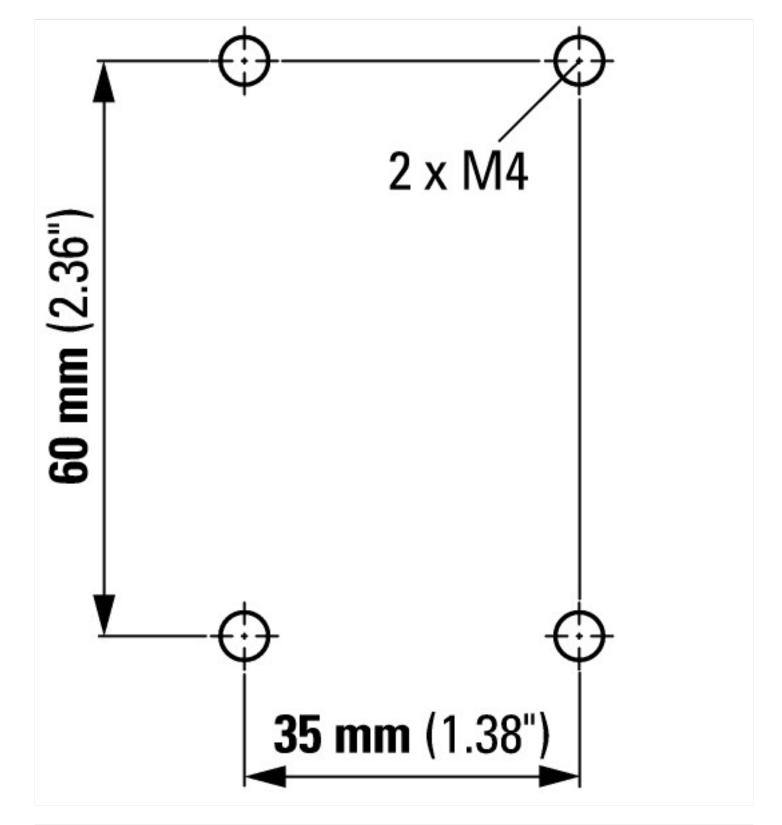
Number of contacts as change-over contact		0
Number of contacts as normally open contact		2
Number of contacts as normally closed contact		2
Number of fault-signal switches		0
Rated operation current le at AC-15, 230 V	А	4
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		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





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