### **DATASHEET - DILA-XHIT20**



Auxiliary contact module, raised, 2N/0, surface mounting, screw connection



Part no. DILA-XHIT20
Catalog No. 101042
Eaton Catalog No. XTCEXFATC20

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Delivery program			
Product range			Accessories
Accessories			Auxiliary contact modules
Description			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.
Function			for combination with electrical wiringlinks
Number of poles			2 pole
Connection technique			Screw terminals
Rated operational current			
Conventional free air thermal current, 1 pole			
Open			
at 60 °C	I <sub>th</sub>	Α	16
AC-15			
220 V 230 V 240 V	I <sub>e</sub>	Α	4
380 V 400 V 415 V	I <sub>e</sub>	Α	4
Contacts			
N/O = Normally open			2 N/O
Mounting type			Front fixing
Contact sequence			153   63 -\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\
For use with			DILM7 DILM9 DILM12 DILM15 DILL MSC-DM7(9, 12, 15) MSC-RM7(9, 12)
Туре			high version
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  Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)

#### **Technical data**

#### Electrical specifications for standard auxiliary contacts

Electrical specifications for standard auxiliary contacts			
Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5-1 Annex L)			Yes
N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)			DILM7 - DILM15
Rated impulse withstand voltage	U <sub>imp</sub>	kV	6
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U <sub>e</sub>	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 <sub>th</sub>	Α	16
AC-15			
220 V 230 V 240 V	l <sub>e</sub>	Α	4
380 V 400 V 415 V	l <sub>e</sub>	Α	4
500 V	l <sub>e</sub>	Α	1.5
DC current			
DC L/R ≦ 15 ms			
Contacts in series:		Α	
1	24 V	Α	10
1	60 V	Α	6
1	110 V	Α	3
1	220 V	Α	1
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 <sub>e</sub>	Α	2.5
60 V	I <sub>e</sub>	Α	1
110 V	I <sub>e</sub>	Α	0.5
220 V	I <sub>e</sub>	Α	0.25
Control circuit reliability	Failure rate	λ	<10 <sup>-8</sup> , < one failure at 100 million operations
,			(at $U_e = 24 \text{ V DC}$ , $U_{min} = 17 \text{ V}$ , $I_{min} = 5.4 \text{ mA}$ )
			$<\!5.3$ x $10^{-8},<$ one failure in 19 millions operations (at $U_e=24$ V DC, $U_{min}=17$ V, $I_{min}=1$ mA)
Company life and			(ut o <sub>e</sub> = 24 v bo, o <sub>min</sub> = 17 v, i <sub>min</sub> = 1 min,
Component lifespan at $U_e = 230 \text{ V}$ , AC-15, 3 A	Operations	.6	12
	Operations	x 10 <sup>6</sup>	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 AC		V	600
AC		A	10
AV.		^	10

# Design verification as per IEC/EN 61439

DC

DC

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	4
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.16
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
EC/EN 61439 design verification			

250

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.
0.4 Clearances and creepage distances	Meets the product standard's requirements.
0.5 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.
0.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
0.8 Connections for external conductors	Is the panel builder's responsibility.
0.9 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.
0.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
0.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
0.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
0.13 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)

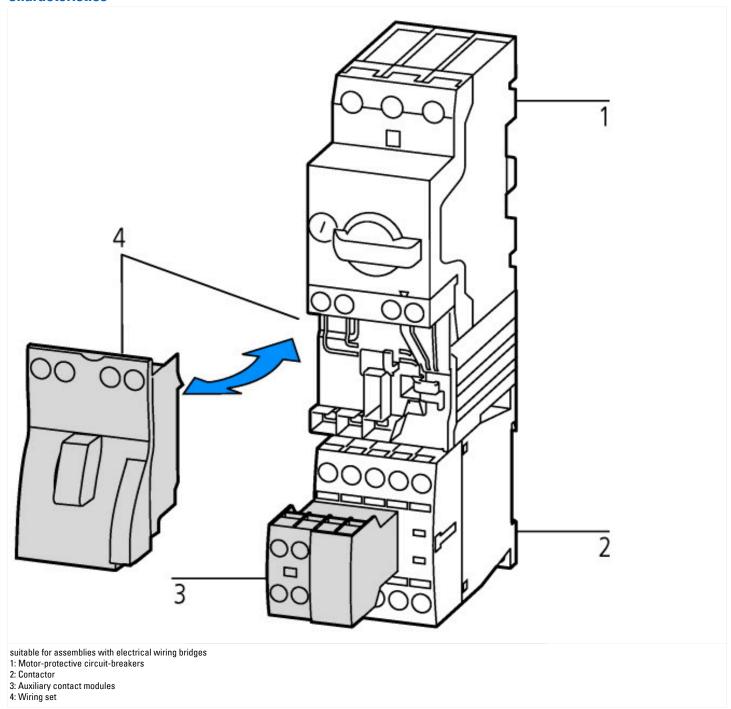
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss8.1-27-37-13-02 [AKN342010])

(CCI @ 330.1 21 01 10 02 [AKNO+2010])		
Number of contacts as change-over contact		0
Number of contacts as normally open contact		2
Number of contacts as normally closed contact		0
Rated operation current le at AC-15, 230 V	Α	4
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Front fastening

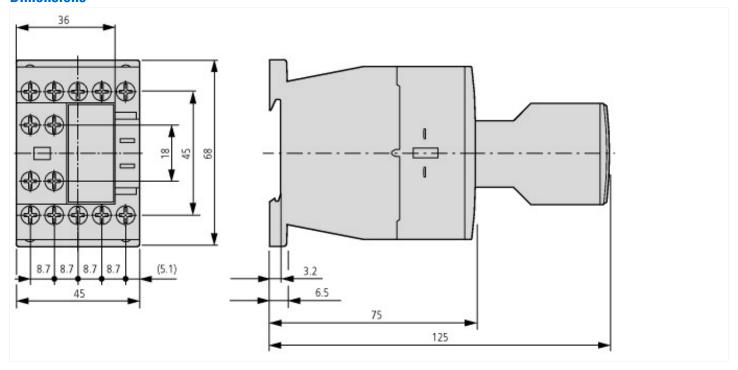
### **Approvals**

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

### **Characteristics**



## **Dimensions**



## **Additional product information (links)**

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ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407013Z2018_04.pdf			
http://www.moeller.net/binary/ver_techpapers/ver934en.pdf			
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