### **DATASHEET - DILA-XHIR22**



Auxiliary contact module, Front mounting auxiliary contact, 4 pole, 380 V 400 V 415 V: 4 A, 2 N/O, 2 NC, Front fixing, Screw terminals



Part no. DILA-XHIR22 Catalog No. 139580

Alternate Catalog

XTCEXFARC22

No.

**EL-Nummer** 4110223

(Norway)			
Delivery program			
Accessories			Auxiliary contact modules
Description			with interlocked opposing contacts (except microswitches) 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 standard applications for electronic applications
Number of poles			4 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 (1 N/O above microswitch for electronic applications)
N/C = Normally closed			2 NC (1 NC above microswitch for electronic applications)
Mounting type			Front fixing
Contact sequence			$\begin{array}{c c} 53 & 1 & 1 & 81 \\ \hline 54 & 72 & 82 \\ \hline \end{array}$
For use with  Type			DILA(C) DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)15 DILM(C)15 DILM(C)25 DILM(C)32 DILMS3 DILMP20 DILMP32 DILMP45 DILMP45 DILMF14 DILMF14 DILMF14 DILMF17 DILMF17 DILMF25 DILMF25 DILMF32 Front mounting auxiliary contact
Instructions			Conventional 63/64 N/O and 71/72 N/C auxiliary contacts with interlocked opposing contacts, in accordance with IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact modules and for the integrated auxiliary contacts in DILM 7 - DILM32 units (not microswitches)  All auxiliary N/C contacts (81/82 N/C microswitches as well) can be used as a mirror contact as defined in IEC/EN 60947-4-1 Appendix F (not NC late-break)
Code number and version of combination			
Distinctive number			51E
with basic device			DILA(C)-40
			42

with basic device	DILA(C)-31
	33
with basic device	DILA(C)-22

# **Technical data**

_				٠
G	Δ	n	ra	П

General			
Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10 <sup>6</sup>	10
DC operated	Operations	x 10 <sup>6</sup>	10
Component lifespan			
at U <sub>e</sub> = 230 V, AC-15, 3 A	Operations	x 10 <sup>6</sup>	1.3
Maximum operating frequency	Operations/h	X 10	9000
Climatic proofing	орогинопо/п		Damp heat, constant, to IEC 60068-2-78
Cinitate profiting			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  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	0.05
Terminal capacities		mm <sup>2</sup>	
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 - 1.5) 2 x (0.75 - 1.5)
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-Annex L)	1		Yes
N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)			DILM7 - DILM38
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
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
555011 John and adminary contracts		• 40	

	V AC	400
	A	
	A	
la.	Δ	16
·m	, ,	
L	Δ	4
		4
I <sub>e</sub>	А	1.5
		Switch-on and switch-off conditions based on DC-13, time constant as specified.
	_	
24.14		
		10
		6
		10
		3
		6
		1
220 V	А	5
		2.5
		1
		0.5
220 V	Α	0.25
le	Α	2.5
l <sub>e</sub>	Α	1
l <sub>e</sub>	Α	0.5
l <sub>e</sub>	Α	0.25
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 <sup>-8</sup> , < one failure in 19 millions operations (at $U_e = 24 \text{ V DC}$ , $U_{min} = 17 \text{ V}$ , $I_{min} = 1 \text{ mA}$ )
	A gG/gL	10
	W	2.6
	W	2.6
	CO	0.16
Ui	V AC	250
		250
		60
		0.1
l <sub>e</sub>	Α	0.5
l <sub>e</sub>	Α	0.3
	Α	0.5
I <sub>th</sub>		
I <sub>th</sub> Failure rate	λ	$<10^{-8}$ , $<$ one failure at 100 million operations (at $U_e=24$ V DC, $U_{min}=17$ V, $I_{min}=1$ mA)
		<10 <sup>-8</sup> , < one failure at 100 million operations (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 1$ mA)
Failure rate	λ	(at U <sub>e</sub> = 24 V DC, U <sub>min</sub> = 17 V, I <sub>min</sub> = 1 mA)
	I <sub>e</sub> I <sub>e</sub>	Ie       A         Ie       A         Ie       A         A       A         24 V       A         60 V       A         110 V       A         220 V       A         220 V       A         220 V       A         110 V       A         220 V       A         Ie       A

Short-circuit rating without welding, max. fuse	A gG/g	. 1.6
Rating data for approved types		
Auxiliary contacts		
General Use		
DC	V	250
DC	А	0.1

# Design verification as per IEC/EN 61439

2001gii 1011110411011 40 poi 120, 211 01 100			
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 <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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. $\label{eq:constraint}$
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**

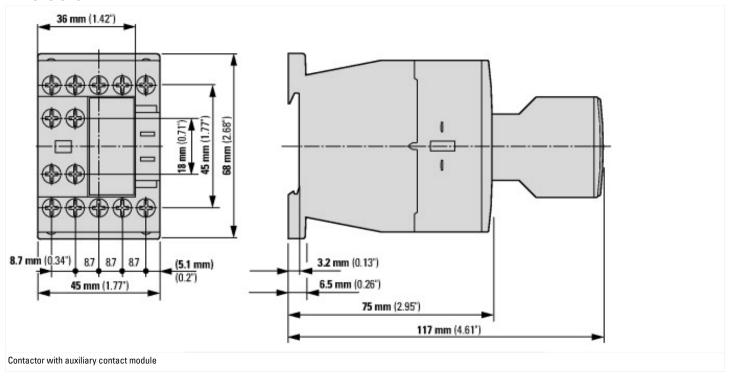
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])			
Number 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		Α	4
Type of electric connection			Screw connection
Model			Top mounting

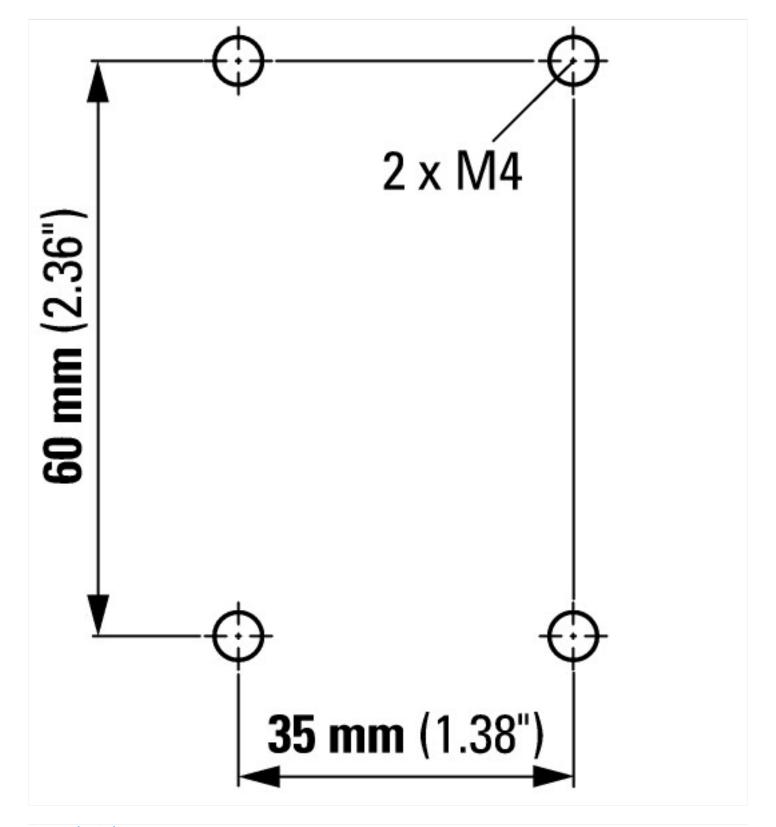
Mounting method	Front fastening
Lamp holder	None

# 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**





#### **Assets (links)**

**Declaration of CE Conformity** 

00002869

**Instruction Leaflets** 

IL03407013Z2018\_07