DATASHEET - DILA-40(240V50HZ)

Part no. Catalog No.

No.



Contactor relay, 240 V 50 Hz, 4 N/O, Screw terminals, AC operation

DILA-40(240V50HZ) 276318 Alternate Catalog XTRE10B40H5



Similar to illustration

Delivery program			
Product range			DILA relays
Application			Contactor relays
Description			Basic devices with positive operation contacts
Connection technique			Screw terminals
Rated operational current			
AC-15			
220 V 230 V 240 V	le	А	4
380 V 400 V 415 V	le	А	4
Contacts			
N/O = Normally open			4 N/O
Contact sequence			$\begin{array}{c} A^{1} 1^{3} 2^{3} 3^{3} 4^{3} \\ \hline \\ A^{2} 4^{-} - 4^{-} - 4^{-} \\ \hline \\ A^{2} 1^{4} 2^{4} 3^{4} 4^{4} \end{array}$
Instructions			Contact numbers to EN 50011 Coil terminal markings to EN 50005
Code number and version of combination			
Distinctive number			40D
Can be combined with auxiliary contact module			DILA-XHI(V)
Actuating voltage			240 V 50 Hz
Voltage AC/DC			AC operation
Connection to SmartWire-DT			no
Instructions			Contact numbers to EN 50011 Coil terminal markings to EN 50005

Technical data General

General			
Standards			IEC/EN 60947, EN 60947-5-1, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10 ⁶	20
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			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			

Basic unit with auxiliary contact module		g	
N/0 contact		g	7
N/C contact		g	5
Degree of Protection		9	IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Altitude		m	Max. 2000
Weight			
AC operated		kg	0.24
Terminal capacities		mm ²	
		mm-	
Screw terminals		0	4 (0.75 4)
Solid		mm ²	1 x (0,75 - 4) 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
Stripping length		mm	10
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			
Positive operating contacts to ZH 1/457, including auxiliary contact module			Yes
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	690
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	400
between the auxiliary contacts		V AC	400
Rated operational current		А	
Conventional free air thermal current, 1 pole			
Open			
at 60 °C	$I_{th} = I_e$	А	16
AC-15			
220 V 230 V 240 V	le	Α	4
380 V 400 V 415 V	le	А	4
500 V	le	A	1.5
DC current			
Notes			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	4
	60 V	А	4
3	60 V 110 V	A A	4 2
	60 V 110 V 220 V		4 2 1

			(at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA)
Short-circuit rating without welding			
Maximum overcurrent protective device			
220 V 230 V 240 V		PKZM0	4
380 V 400 V 415 V		PKZM0	4
Short-circuit protection maximum fuse			
500 V		A gG/gL	10
Current heat loss at I _{th}			
AC operated		W	0.53
Magnet systems			
Voltage tolerance			
AC operated			
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	x U _c	0.8 - 1.1
Power consumption			
AC operation			
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	VA	24
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Sealing	VA	3.4
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Sealing	W	1.4
duty factor		% DF	100
Changeover time at 100 % U_{S} (recommended value)			
AC operated closing delay		ms	15 - 21
AC operated N/O contact opening delay		ms	9 - 18
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		А	15
DC		V	250

Design verification as per IEC/EN 61439

DC

Rated operational current for specified heat dissipation n A I5 Heat dissipation per pole, current-dependent P _{vid} W 0 Equipment heat dissipation, current-dependent P _{vid} W 0 Static heat dissipation, non-current-dependent P _{vid} W 14 Heat dissipation, non-current-dependent P _{vis} W 0 Operating ambient temperature min. Pdiss V 0 Operating ambient temperature max. °C 60 0 102.25 Krength of materials and parts °C 60 0 102.25 Corrosion resistance Mest the product standard's requirements. Mest the product standard's requirements. 102.3.1 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects Mest the product standard's requirements. 102.3.3 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Mest the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Mest the product standard's requirements. 102.2.1 Verification of resistance of insulating materials to abnormal heat fire due to interna				
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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.	10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances Meets the product standard's requirements.	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.
10.5 Protection against electric shock 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.

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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.

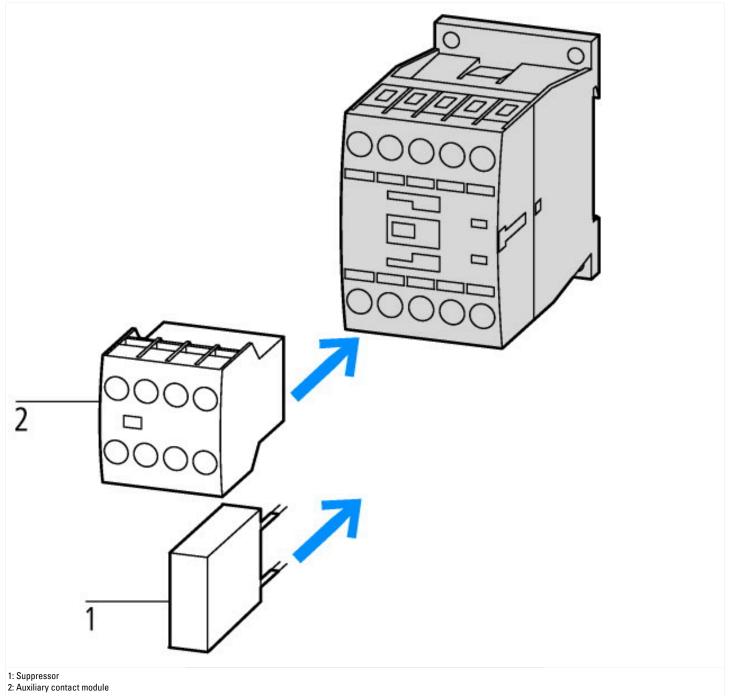
Technical data ETIM 7.0

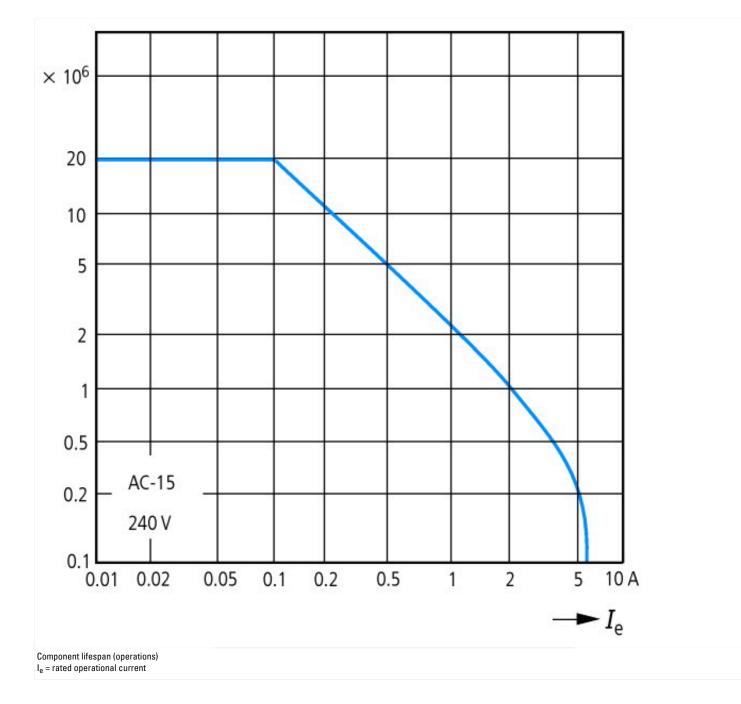
Low-voltage industrial components (EG000017) / Contactor relay (EC000196)

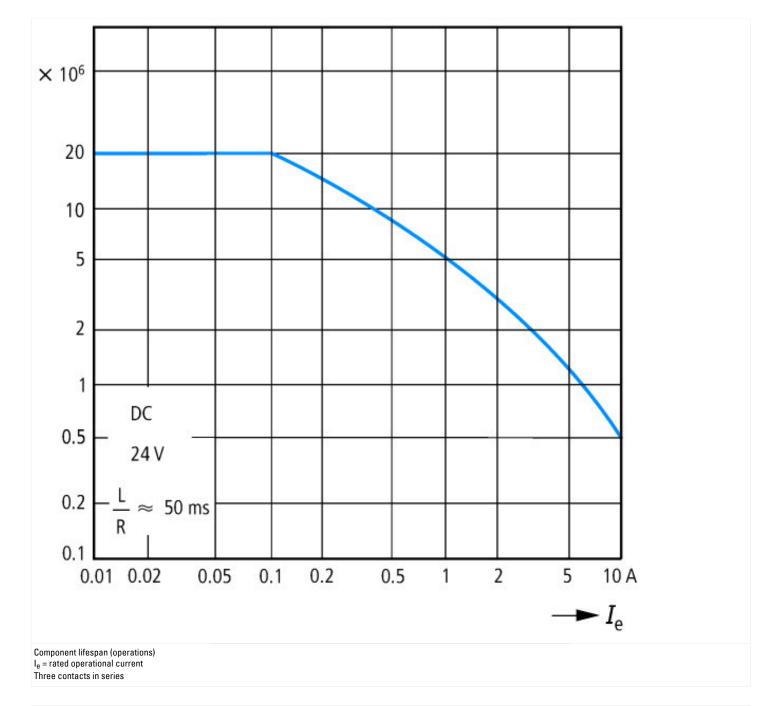
Electric engineering, automation, process control engineering / Low-voltage sub-tictuology/ Voltage Us at AC 50HZ V 20 - 240 Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at AC 60HZ V 0 - 0 Voltage type for actuating V 0 - 0 Notage type for actuating V 0 - 0 Rated operation current le, 400 V A A Connection type auxiliary circuit V 0 - 0 Mounting method V A Interface V No Number of auxiliary contacts as normally closed contact V No Number of auxiliary contacts as normally closed contact, delayed switching V No Number of auxiliary contacts as normally closed contact, delayed switching No No Number of auxiliary contacts as normally closed contact, delayed switching No No Number of auxiliary contacts as normally closed contact, delayed switching No No Number of auxiliary contacts as normally closed contact, delayed switching No No Number of auxiliary contacts as normally closed contact, delayed					
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Rated control supply voltage Us at DC V 0 Voltage type for actuating AC Rated operation current le, 400 V A Connection type auxiliary circuit A Mounting method Screw connection Interface No Number of auxiliary contacts as normally closed contact Generation Number of auxiliary contacts as normally closed contact, delayed switching J Number of auxiliary contacts as normally open contact, leading O Number of auxiliary contacts as normally open contact, leading J Number of auxiliary contacts as normally open contact, leading O Number of auxiliary contacts as normally open contact, leading J Number of auxiliary contacts as normally open contact, leading J Number of auxiliary contacts as normally open contact, leading No Number of auxiliary contacts as normally open contact, leading No Number of auxiliary contacts as normally open contact, leading No Number of auxiliary contacts as normally open contact, leading No	Rated control supply voltage Us at AC 50HZ	V	240 - 240		
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Number of auxiliary contacts as normally closed contact, delayed switching 0 Number of auxiliary contacts as normally open contact, leading 0 With LED indication 0	Number of auxiliary contacts as normally closed contact		0		
Number of auxiliary contacts as normally open contact, leading 0 With LED indication No	Number of auxiliary contacts as normally open contact		4		
With LED indication No	Number of auxiliary contacts as normally closed contact, delayed switching		0		
	Number of auxiliary contacts as normally open contact, leading		0		
	With LED indication		No		
Number of auxiliary contacts as change-over contact	Number of auxiliary contacts as change-over contact		0		
Manual operation possible No	Manual operation possible		No		

Approvals

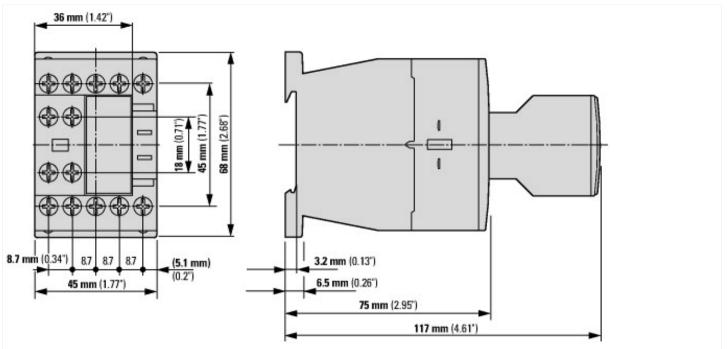
Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Specially designed for North America	No

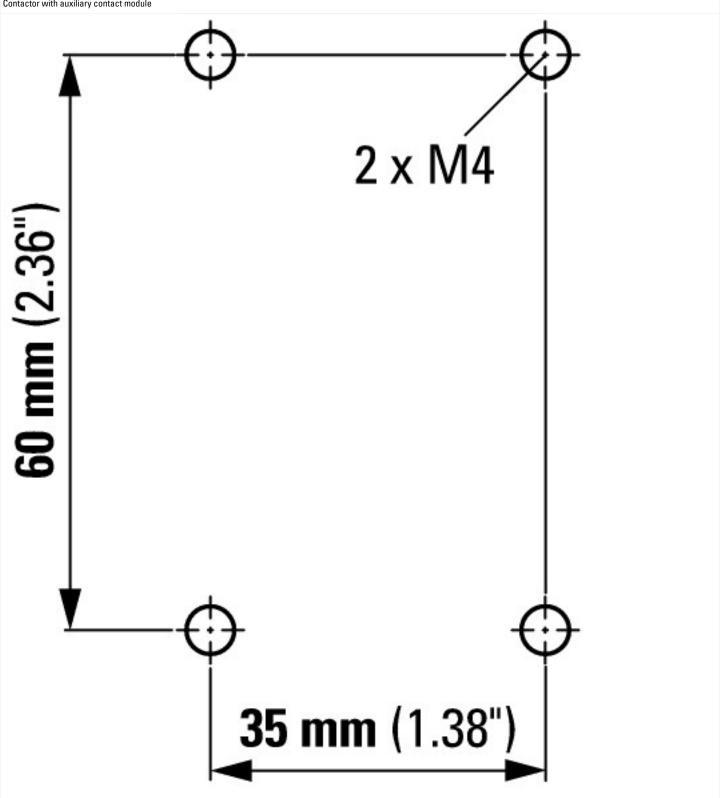






Dimensions





Additional product information (links)

IL03407013Z (AWA2100-2126) Contactors

IL03407013Z (AWA2100-2126) Contactors

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407013Z2020_05.pdf