DATASHEET - DILA-22(48V50HZ)



Contactor relay, 48 V 50 Hz, 2 N/O, 2 NC, Screw terminals, AC operation

Powering Business Worldwide

Part no. DILA-22(48V50HZ) Catalog No. 276387 XTRE10B22Y Alternate Catalog No.

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	I _e	Α	4
380 V 400 V 415 V	Ie	Α	4
Contacts			
N/O = Normally open			2 N/O
N/C = Normally closed			2 NC
Contact sequence			A1 13 21 31 43 A2 14 22 32 44
Instructions			Contact numbers to EN 50011 Coil terminal markings to EN 50005
Code number and version of combination			
Distinctive number			22E
Can be combined with auxiliary contact module			DILA-XHI(V)
Actuating voltage			48 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

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 N/O contact N/C contact Degree of Protection Protection against direct contact when actuated from front (EN 50274) Altitude Max. 2000 Weight AC operated AC operated Screw terminals Scriew terminals Solid Imm² Flexible with ferrule Solid or stranded AWG Stripping length Terminal screw Pozidriv screwdriver Strandard screwdriver Standard screwdriver Max. 1200 Max. 2000 Max. 2000	
N/O contact	
N/C contact Degree of Protection Protection against direct contact when actuated from front (EN 50274) Altitude Weight AC operated Screw terminals Solid Solid Mm² Solid Mm² 1 × (0.75 - 4) 2 × (0.75 - 2.5) Flexible with ferrule Mm² Stripping length Terminal screw Pozidriv screwdriver Standard screwdriver Standard screwdriver Max. 2000 Max. 2	
Protection against direct contact when actuated from front (EN 50274) Altitude Meight AC operated AC operated Screw terminals Solid mm² I x (0,75 - 4) 2 x (0,75 - 2.5) 2 x (0,75 - 2.5) Solid or stranded AWG 18 - 14 Stripping length Terminal screw Pozidriv screwdriver Standard screwdriver Max. tightening torque Finger and back-of-hand proof m Max. 2000 Finger and back-of-hand proof Max. 2000 Finger and back of the proof Max. 2000 Fin	
Altitude m Max 2000 Weight AC operated kg 0.24 Terminal capacities mm² Screw terminals Solid mm² 1x (0,75 - 4) 2x (0,75 - 2.5) Flexible with ferrule mm² 1x (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	
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Positive operating contacts to ZH 1/457, including auxiliary contact module Yes	
Pated impulse withstand voltage	
Rated impulse withstand voltage U _{imp} V AC 6000	
Overvoltage category/pollution degree III/3	
Rated insulation voltage U _i 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 A	
Conventional free air thermal current, 1 pole Open	
at 60 °C I _{th} =I _e A 16	
AC-15	
220 V 230 V 240 V I _e A 4	
380 V 400 V 415 V I _e A 4	
500 V I _e A 1.5	
DC current	
Notes Switch-on and switch-off conditions based on DC-13, time constant as	s specified.
DC L/R ≦ 15 ms	
Contacts in series:	
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:	
3 24 V A 4	
3 60 V A 4	
3 110 V A 2	
3 220 V A 1	

Control circuit reliability Failure rate	
Maximum overcurrent protective device 220 V 230 V 240 V 380 V 400 V 415 V Short-circuit protection maximum fuse 500 V Current heat loss at I _{th} AC operated MO 0.53 Magnet systems Voltage tolerance AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz 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 VA 1.4 duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay ms 15 - 21	
220 V 230 V 240 V 380 V 400 V 415 V Short-circuit protection maximum fuse 500 V 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 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 3.4 Sugle-voltage coil 50 Hz Sealing VA 3.4 Su	
380 V 400 V 415 V Short-circuit protection maximum fuse 500 V A gG/gL 10 Current heat loss at Ith AC operated W 0.53 Magnet systems Voltage tolerance AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing W 1.4 duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay ms 15 - 21	
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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 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz 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 Changeover time at 100 % U _S (recommended value) AC operated closing delay ms 15 - 21	
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Changeover time at 100 % U _S (recommended value) AC operated closing delay ms 15 - 21	
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 A 15	
DC V 250	

Design verification as per IEC/EN 61439

DC

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	15.5
Heat dissipation per pole, current-dependent	P_{vid}	W	0.5
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	1.4
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.

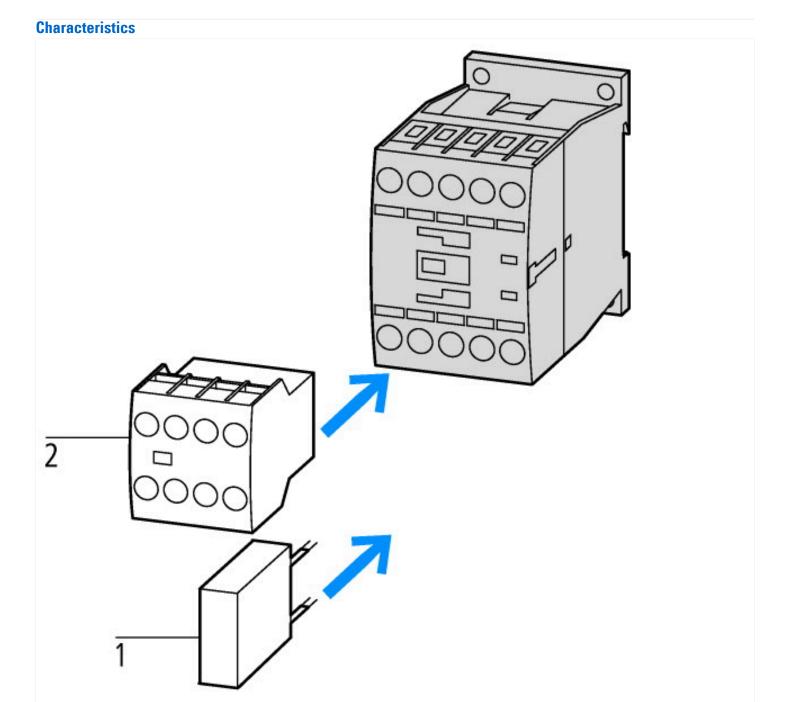
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's 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

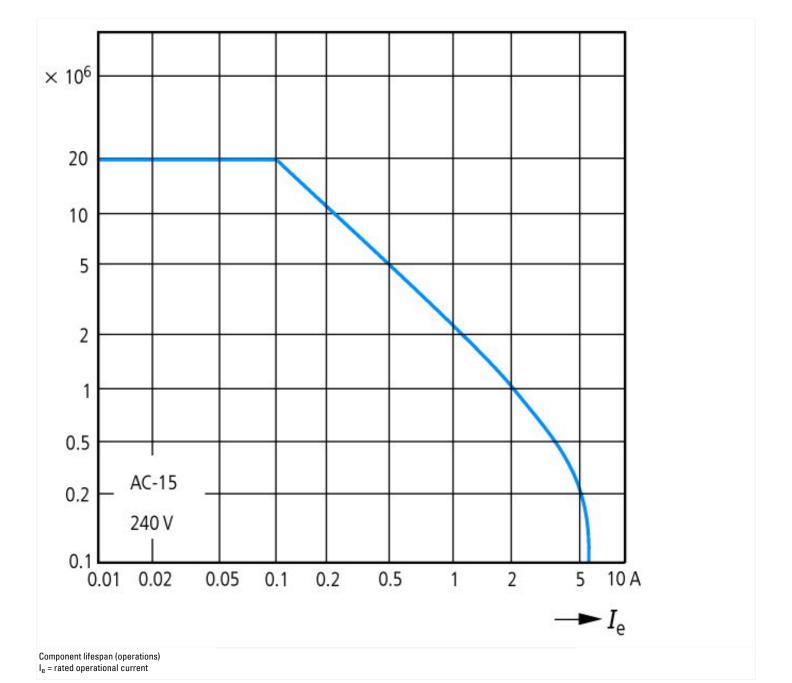
Low-voltage industrial components (EG000017) / Contactor relay (EC000196)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss10.0.1-27-37-10-01 [AAB716014])		
Rated control supply voltage Us at AC 50HZ	V	48 - 48
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Rated operation current le, 400 V	А	4
Connection type auxiliary circuit		Screw connection
Mounting method		DIN-rail/screw
Interface		No
Number of auxiliary contacts as normally closed contact		2
Number of auxiliary contacts as normally open contact		2
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		0
Manual operation possible		No

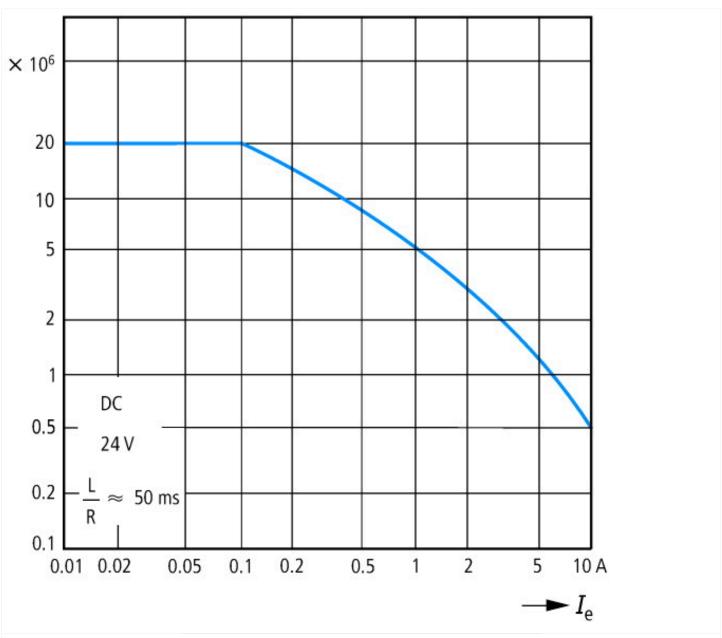
Approvals

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



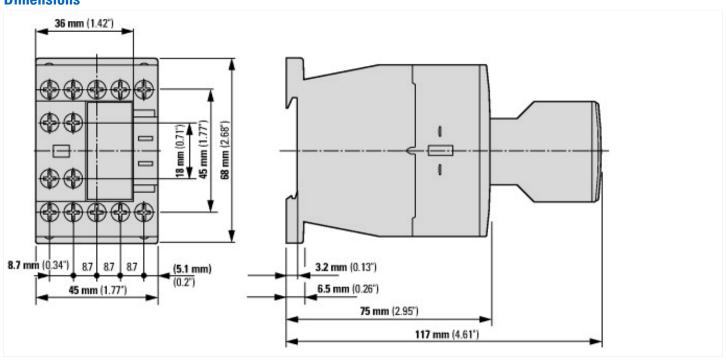
1: Suppressor 2: Auxiliary contact module

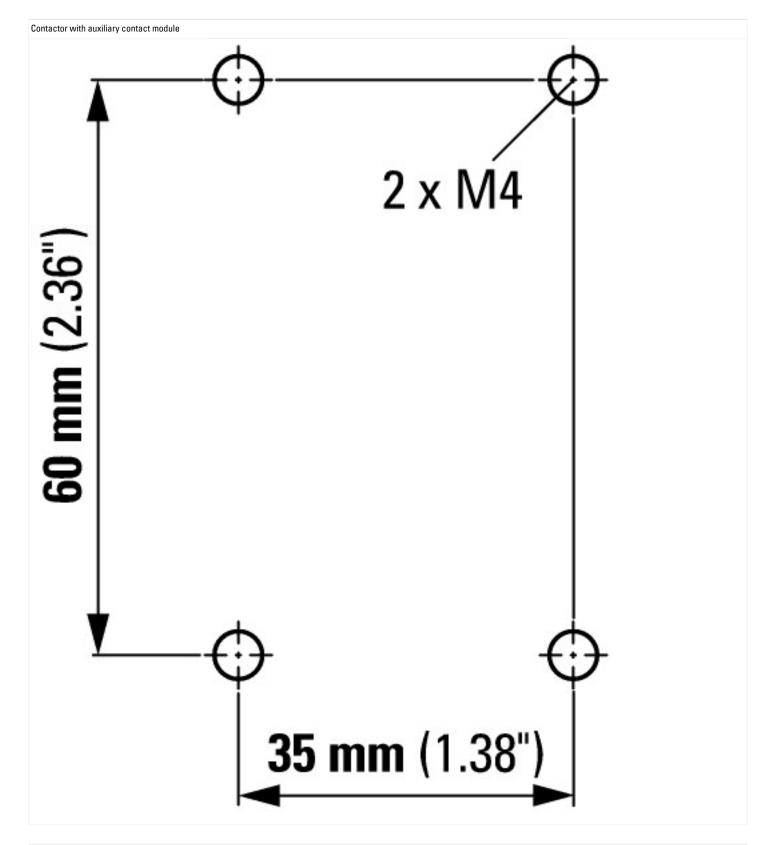




$$\label{eq:component lifespan (operations)} \begin{split} & l_{e} = \text{rated operational current} \\ & \text{Three contacts in series} \end{split}$$

Dimensions





Additional product information (links)

IL03407013Z (AWA2100-2126) Contactors

IL03407013Z (AWA2100-2126) Contactors

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