

Contactor relay,2M/2Oe,DC-operated

DILA-22(24VDC) Part no.

Article no. 276414





Delivery programme

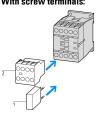
Delivery programme			
Actuating voltage			24 V DC
Connection technique			Screw terminals
Voltage AC/DC			DC operation
Contacts			
N/O = Normally open			2 N/0
N/C = Normally closed			2 N/C
Rated operational current			
AC-15			
220 V 230 V 240 V	I _e	А	4
380 V 400 V 415 V	I _e	А	4
Conventional thermal current	I_{th}	Α	16
Code number			
			22E
Can be combined with auxiliary contact module			DILA-XHI(V)
Contact sequence			A1 13 21 31 43 A2 14 22 32 44

Notes

Interlocked opposing contacts

Notes

With screw terminals:



1 Suppressor

2 Auxiliary contact module

Contact numbers to EN 50011

Coil terminal markings to EN 50005

The DC operated contactors have a built-in suppressor circuit.

Page

General

Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	× 10 ⁶	20
DC operated	Operations	× 10 ⁶	20
Maximum operating frequency		Ops./h	
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		°C	
Open		°C	-2560
Enclosed		°C	- 25 40
Ambient temperature, storage		°C	- 40 - 80

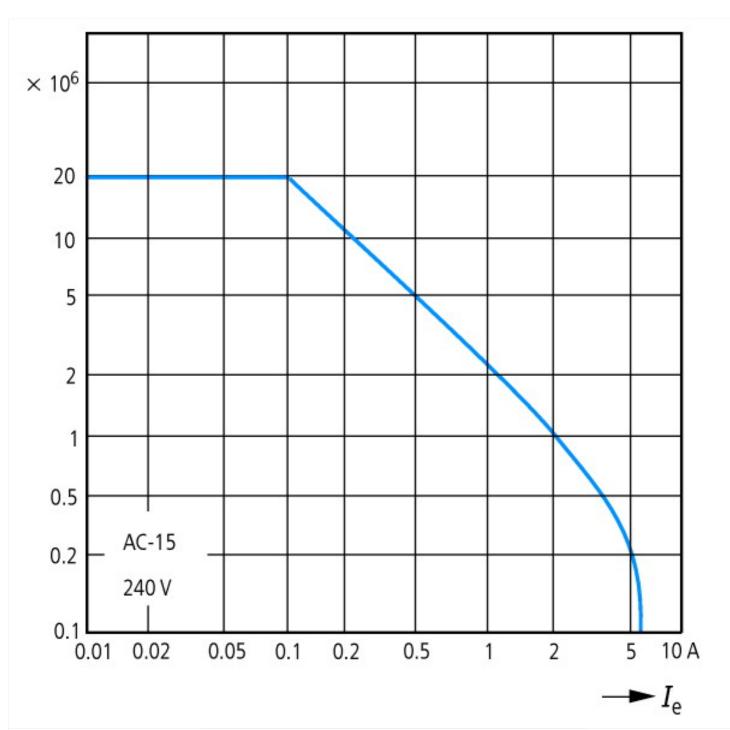
Mounting position			
Mounting position			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Basic unit with auxiliary contact module		g	
N/O contact		g	7
N/C contact		g	5
Protection type			IP 20
Protection against direct contact when actuated from front (IEC 536)			Finger and back-of-hand proof
Weight			
AC operated		kg	0.23
DC operated		kg	0.28
Terminal capacities		mm ²	
Screw terminals			
Solid		mm ²	$ 1 \times (0,75 - 4) \\ 2 \times (0,75 - 2,5) $
Flexible with ferrule		mm ²	$1 \times (0.75 - 2.5)$ $2 \times (0.75 - 2.5)$
Solid or stranded		AWG	18 – 14
Terminal screw		0.	M3.5
Pozidriv screwdriver		Size	2
Standard screwdriver		Mm	0.8 × 5.5 1 × 6
Max. tightening torque Spring-loaded terminals		Nm	1.2
Solid		2	1 × (0.75 – 2.5)
Flexible with or without ferrule DIN 46228		mm ²	$2 \times (0.75 - 2.5)$ $1 \times (0.75 - 1.5)$
TIONIDIO WILLIO WILLIOU DI VIOLED		mm ²	2 × (0,75 – 1.5)
Solid or stranded		AWG	18 – 14
Standard screwdriver		mm	0.6 × 3.5
Contacts			
Positive operating contacts to ZH 1/457, including auxiliary contact module			Yes
Rated impulse withstand voltage	$U_{\rm imp}$	V AC	6000
Overvoltage category/pollution degree		V 40	III/3
Rated insulation voltage	U _i	V AC	690
Rated operational voltage	<i>U</i> e	V AC	690
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between coil and auxiliary contacts		V AC	400
between the auxiliary contacts	,	V AC	400
Rated operational current	I _e	Α	
AC-15	,		
220/240 V	I _e	A	4
380/415 V	l _e	Α	4
500 V	I _e	Α	1.5
DC-13			
DC-13 L/R – 15 ms			
Contacts in series:		A	
1	24 V	A	10
1	60 V	Α	6
2	60 V	Α	10

1 110 V A 3 3 110 V A 6 1 220 V A 1	
1 220 V A 1	
0	
3 220 V A 5	
DC-13 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 (at $U_e = 24 \text{ V DC}$, $U_{min} = 17 \text{ V}$, $I_{min} = 5.4 \text{ mA}$) Failure rate λ <10 ⁻⁸ , < one failure at 100 million of	operations
Conventional thermal current Ith A 16	
Short-circuit rating without welding	
Maximum overcurrent protective device	
220/240 V PKZM0 4	
380/415 V PKZM0 4	
Short-circuit protection maximum fuse	
500 V A gG/gL 10	
Current heat loss at l_{th}	
AC operated W 0.3	
DC operated W 0.3	
Magnet systems	
Voltage tolerance \times U_{c}	
AC operated $ imes U_{ extsf{c}}$	
Pick-up $\times U_{\rm c}$ 0.8 – 1.1	
DC operated $ imes U_{ m c}$	
Pick-up $\times U_{\rm c}$ 0.8 – 1.1	
at 24 V: without auxiliary contact component (40 °C) Pick-up $\times U_c$ 0.7 – 1.3	
Power consumption	
50 Hz Pick-up VA 24	
50 Hz Sealing VA 3.4	
50 Hz Sealing W 1.2	
60 Hz Pick-up VA 30	
60 Hz Sealing VA 4.4	
60 Hz Sealing W 1.4	
50/60 Hz Pick-up VA 27 25	
50/60 Hz Sealing VA 4.2 3.3	
50/60 Hz Sealing W 1.4 1.2	
DC operated Pull-in = sealing W 3	
Duty factor % DF 100	
Switching times at 100 % $U_{ m c}$ (approximate values)	
AC operated closing delay ms 15 – 21	
AC operated N/O contact opening delay ms 9 – 18	
DC operated closing delay ms	
Switching times, DC operated, max. closing delay ms 31	

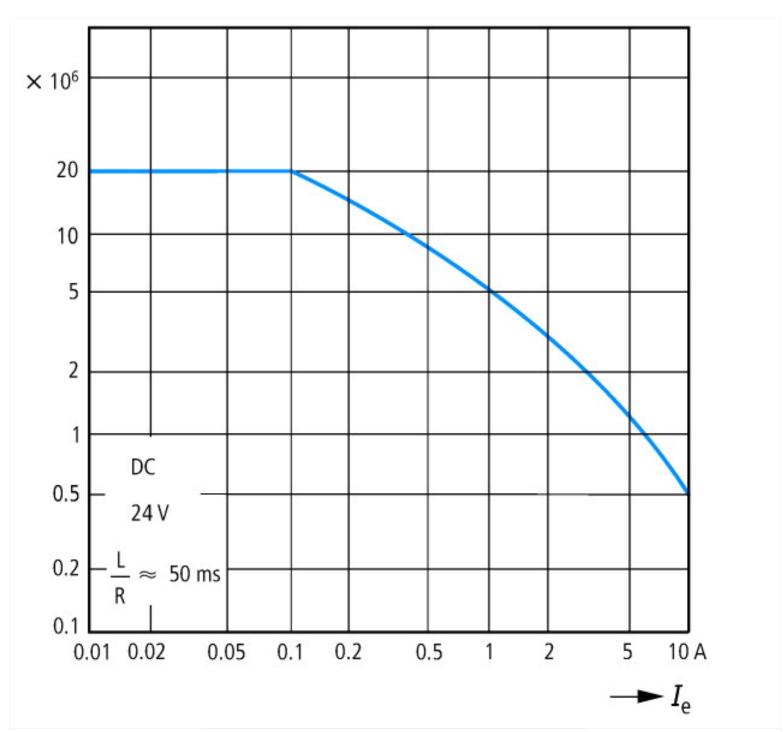
Note

Notes Making and breaking conditions to DC-13, time constant as stated See transparent overlay "Fuses" for time/current characteristics (please enquire) Use only equal cross-sections

Switching times, DC actuated make contact Opening delay, max.

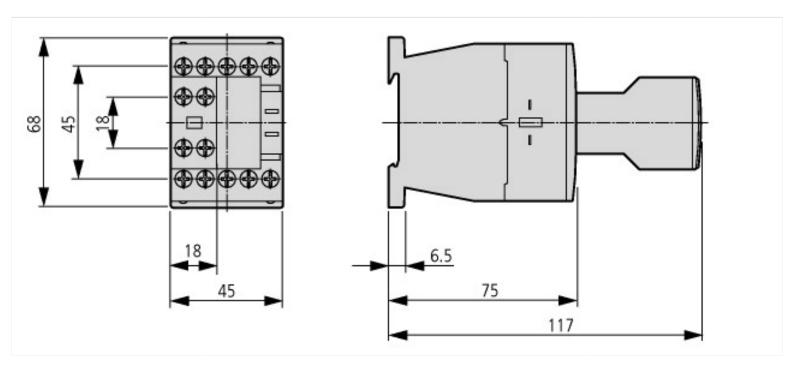


Component lifespan (operations) le = Rated operational current



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Dimensions



Additional product information (links)

Installation instructions

AWA2100-2126 Contactors

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/21261207.pdf$