

Mini contactor relay,2NO/2NC,DC operated

Powering Business Worldwide

Part no. DILER-22-G(24VDC)

Article no. 010042

Program

Program					
Product range				DILER Mini-contactors	
Application				Contactor relays	
Connection technique				Screw terminals	
Rated operational current					
AC-15					
220 V 230 V 240 V		l _e	А	6	
380 V 400 V 415 V		l _e	A	3	
Conv. thermal current		I _{th}	Α	10	
Contacts					
N/O = Normally open				2 N/0	
N/C = Normally closed				2 N/C	
Contact sequence				A1 13 21 31 43 14 22 32 44	
For use with				-	
Actuating voltage				24 V DC	
Voltage AC/DC				DC operation	
Code number and version of combination					
Distinctive number				22E	
Auxiliary contact module					
Interlocked opposing contacts Interlocked opposing contacts Interlocked opposing contacts	02DILE 04DILE		22E 24 26		Conforms to EN 50011 - terminal markings of the coil according to EN 50005 EN 50005 EN 50005
Interlocked opposing contacts 1 early-make contact, 1 late-break contact	11DILE 11DDILE		33 33		EN 50005 EN 50005
Interlocked opposing contacts Interlocked opposing contacts Interlocked opposing contacts 1 early-make contact, 1 late-break contact Interlocked opposing contacts Interlocked opposing contacts	13DILE 20DILE 22DILE 22DDILE 31DILE 40DILE		35 42 44 44 53 62		EN 50005 EN 50005 EN 50005 EN 50005 EN 50005
InstructionsContact numbers to EN 50011 Coil terminal markings to EN 50005 Integrated diode-resistor combination Coil rating 2.6 W					

Approbationen
Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Cryffication NA Certification Specially designed for NA

Downloaded from Elcoving electronic components distributor

IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E29184
NKCR
012528

3211-03 UL listed, CSA certified

General

General			
Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10 ⁶	10
DC operated	Operations	x 10 ⁶	20

Maximum operating frequency		Ops./ h	
Maximum operating frequency		Operation h	ons#000
Climatic proofing			Damp heat, constant to IEC 60068-2-78 Damp heat, cyclic to IEC 60068-2-30
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
Ambient temperature		°C	
Open		°C	- 25 - 50
Enclosed		°C	- 25 - 40
Mounting position			
Mounting position			As required, except vertical with terminals A1/A2 at the bottom
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Basic unit with auxiliary contact module		g	
N/O contact		g	10
N/C contact		g	8
Protection type			IP20
Protection against direct contact when actuated from front (EN 90274)			Finger and back-of-hand proof
Weight		l-a	0.17
AC operated		kg	0.17
DC operated		kg 2	0.2
Terminal capacities		mm ²	
Screw terminals			1 (075 05)
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
Spring-loaded terminals			
Solid		mm ²	1 x (1 - 2.5) 2 x (1 - 2.5)
Flexible with or without ferrule DIN 46228		mm ²	1 x (1 - 2.5) 2 x (1 - 2.5)
Solid or stranded		AWG	1 x (16 - 14) 2 x (16 - 14)
Standard screwdriver		mm	0.6 x 3.5
Contacts			V
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			III/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	600
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between coil and auxiliary contacts		V AC	300
between the auxiliary contacts		V AC	300
Rated operational current	l _e	Α	
AC-15			
220/240 V	le	Α	6
380/415 V	l _e	Α	3

500 V	l _e	Α	1.5
DC-13			
DC-13 L/R - 15 ms			
Contacts in series:		Α	
1	24 V	Α	2.5
2	60 V	Α	2.5
3	110 V	Α	1.5
3	220 V	Α	0.5
Control circuit reliability (at U_e = 24 V DC, U_{min} = 17 V, I_{min} = 5.4 mA)	Failure rate	λ	<10 ⁻⁸ , < one failure at 100 million operations
Conv. thermal current	I _{th}	Α	10
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	6
500 V		A fast	10
Current heat loss at I _{th}			
AC operated		W	0.2
DC operated		W	0.3
Magnet systems			
Voltage tolerance		xU_{c}	
AC operated		x U _c	
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	x U _c	0.8 - 1.1
Dual-frequency coil 50/60 Hz	Pick-up	x U _c	0.85 - 1.1
DC operated		x U _c	
Pick-up voltage	Pick-up	x U _c	0.85 - 1.3
at 24 V: without auxiliary contact component (40 °C)	Pick-up	x U _c	0.7 - 1.3
Power consumption			
50 Hz	Pick-up	VA	25
50 Hz	Sealing	VA	4.6
50 Hz	Sealing	W	1.3
60 Hz	Pick-up	VA	25
60 Hz	Sealing	VA	4.6
60 Hz	Sealing	W	1.3
50/60 Hz	Pick-up	VA	30 29
50/60 Hz	Sealing	VA	5.4 3.9
50/60 Hz	Sealing	W	1.6 1.1
DC operated	Pull-in = sealing	W	2.6
Duty factor		% DF	100
Switching times at 100 % U _c (approximate values)			
AC operated closing delay		ms	14 - 21
AC operated N/O contact opening delay		ms	8 - 18
AC operated With auxiliary contact module Max. closing delay		ms	45
DC operated closing delay		ms	26 - 35
DC operated N/O contact opening delay		ms	15 - 25
DC operated With auxiliary contact module Max. closing delay		ms	70

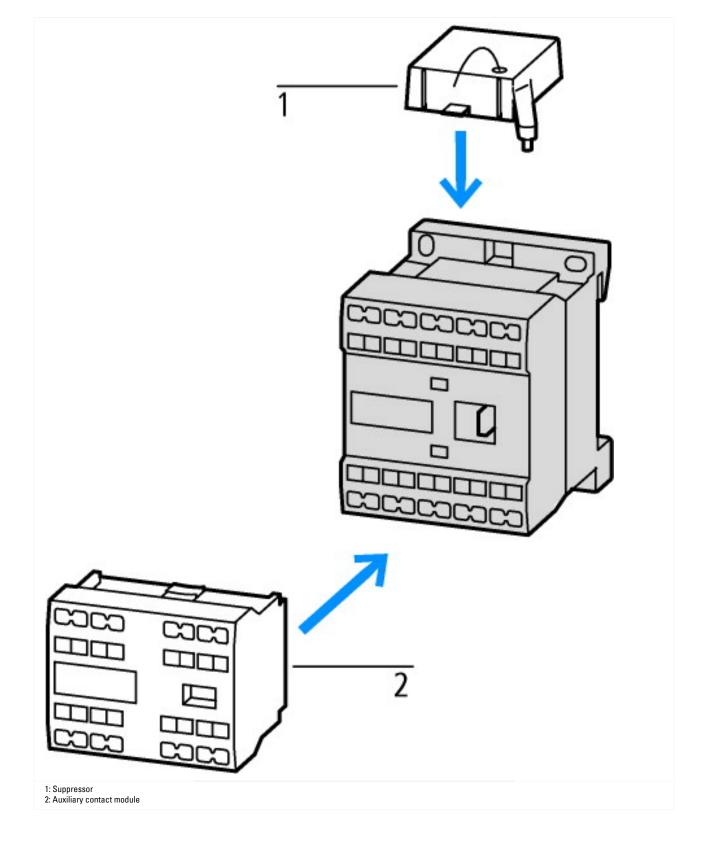
Notes

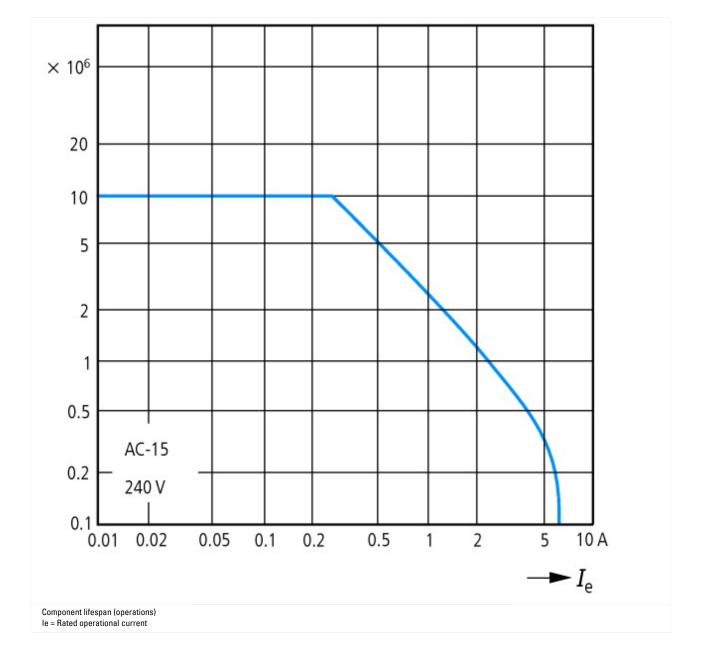
Notes Making and breaking conditions to DC-13, time constant as stated See transparent overlay "Fuses" for time/current characteristics (please enquire)

Technical data according to ETIM 4.0

Connection type main circuit		Screw connection
Rated control voltage Us at DC	V	24
Rated control voltage Us at AC 60HZ	V	0
Rated control voltage Us at AC 50HZ	V	0
Number of auxiliary contacts as changeover contacts		0
Rated operation current le , 400 V	Α	3
Number of auxiliary contacts as N/Cs		2
Number of auxiliary contacts as N/Os		2
Voltage type for actuation		DC
Number of auxiliary contacts as N/Os, leading		0
Number of auxiliary contacts as N/Cs, delayed switching		0

Characteristics

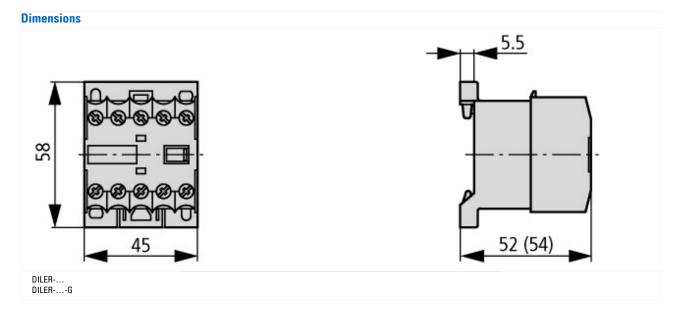




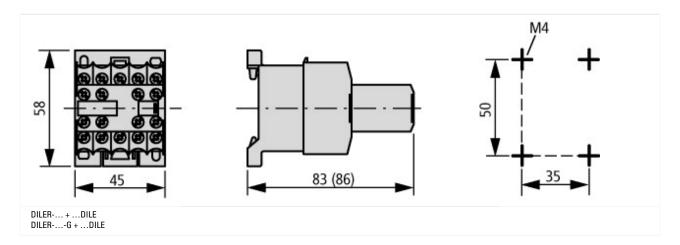
CAD-Data

Product standards CAD data:

http://eaton-moeller.partcommunity.com



HPL-ED2011 V2.0 EN (UX111)



Additional product information (links)

IL03407009Z (IL03407009Z) Mini contactor relay	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2010_10.pdf
Installation Instructions	http://www.moeller.net/en/support/instructions_awa.jsp
Documentation	http://www.moeller.net/en/support/index.jsp