

Contactor relay, 4N/O, AC

Part no. Article no. Catalog No. DILER-40(220V50/60HZ) 021983 XTRM10A40A0



Delivery programme

Product range			DILER Mini-contactors
Application			Contactor relays
Description			with interlocked opposing contacts
Connection technique			Screw terminals
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 50 °C	I _{th} =I _e	А	10
AC-15			
220 V 230 V 240 V	le	А	6
380 V 400 V 415 V	le	А	3
Contacts			
N/O = Normally open			4 N/O
Contact sequence			$\begin{array}{c} A1 \\ A2 \\$
Code number and version of combination			
Distinctive number			40 E
For use with			DILE
Actuating voltage			220 V 50/60 Hz
Voltage AC/DC			AC operation
Instructions			Contact numbers to EN 50011 Coil terminal markings to EN 50005

Approvals

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
riduct standards	120/214 00347-4-1, 02 300, 00A-022.2 No. 14-03, 02 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

General Standards IEC/EN 60947, VDE 0660, UL, CSA Lifespan, mechanical AC operated Operations x 10⁶ 10 Maximum operating frequency Operations/h 9000 Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 °C Ambient temperature Open °C - 25 - 50 °C Enclosed - 25 - 40 Mounting position As required, except vertical with terminals A1/A2 at the bottom Mounting position

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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
Degree of Protection			IP20
Weight			
AC operated		kg	0.17
Terminal capacities		mm ²	
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			
Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module	t		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	600
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	300
between the auxiliary contacts		V AC	300
Rated operational current		Α	
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 50 °C	I _{th} =I _e	A	10
AC-15			
220 V 230 V 240 V	l _e	A	6
380 V 400 V 415 V	le	А	3
500 V	le	А	1.5
DC current			
Notes			Switch-on and switch-off conditions based on DC-13, time constant as specified.
DC-13 L/R - 15 ms			
Contacts in series:		Α	
1	24 V	А	2.5
2	60 V	Α	2.5
3	110 V	Α	1.5
3	220 V	А	0.5
Control circuit reliability	Failure rate	λ	<10 ⁻⁸ , < one failure at 100 million operations

			(at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA)
Short-circuit rating without welding			10: 0 ₀ - 24 v 00, 0min - 17 v, 1min - 34 inny
Maximum overcurrent protective device			
220 V 230 V 240 V		PKZM0	4
380 V 400 V 415 V		PKZIVIU PKZM0	
		PKZIVIU	4
Short-circuit protection maximum fuse			
500 V 500 V		A gG/gL A fast	
Suu v Current heat loss at Ith		ATast	10
u ,			
AC operated		W	0.2
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
Dual-frequency coil 50/60 Hz	Pick-up	x U _c	0.85 - 1.1
Power consumption			
AC operation			
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	VA	25
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Sealing	VA	4.6
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Sealing	W	1.3
Dual-frequency coil 50/60 Hz at 50 Hz	Pick-up	VA	25
Dual-frequency coil 50/60 Hz at 50 Hz	Sealing	VA	4.6
Dual-frequency coil 50/60 Hz at 50 Hz	Sealing	W	1.3
Dual-frequency coil 50/60 Hz at 60 Hz	Pick-up	VA	30 29
Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	VA	5.4 3.9
Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	W	1.6 1.1
duty factor		% DF	100
Switching times at 100 % U $_{ m c}$ (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
Data for design verification according to IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	l _n	A	10
Heat dissipation per pole, current-dependent	P _{vid}	W	0.2
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	1.6
Heat dissipation capacity		W	0
	P _{diss}	vv	
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			Mosto the mediust standard's medium and
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.

01/15/2015

10.2.7 Inscriptions

10.2.6 Mechanical impact

10.3 Degree of protection of ASSEMBLIES

10.4 Clearances and creepage distances

10.5 Protection against electric shock

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

Does not apply, since the entire switchgear needs to be evaluated.

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Does not apply, since the entire switchgear needs to be evaluated.

Meets the product standard's requirements.

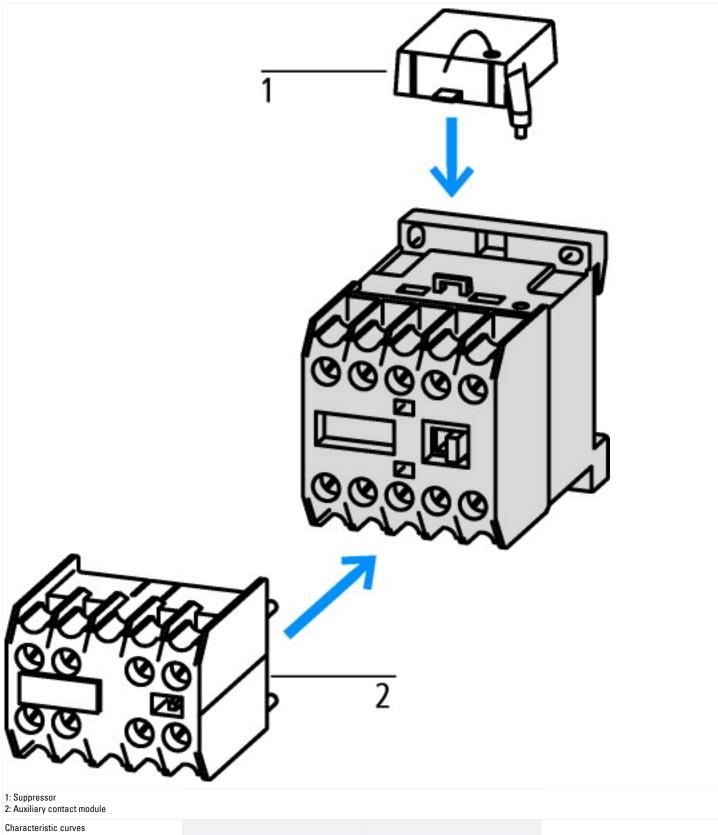
Meets the product standard's requirements.

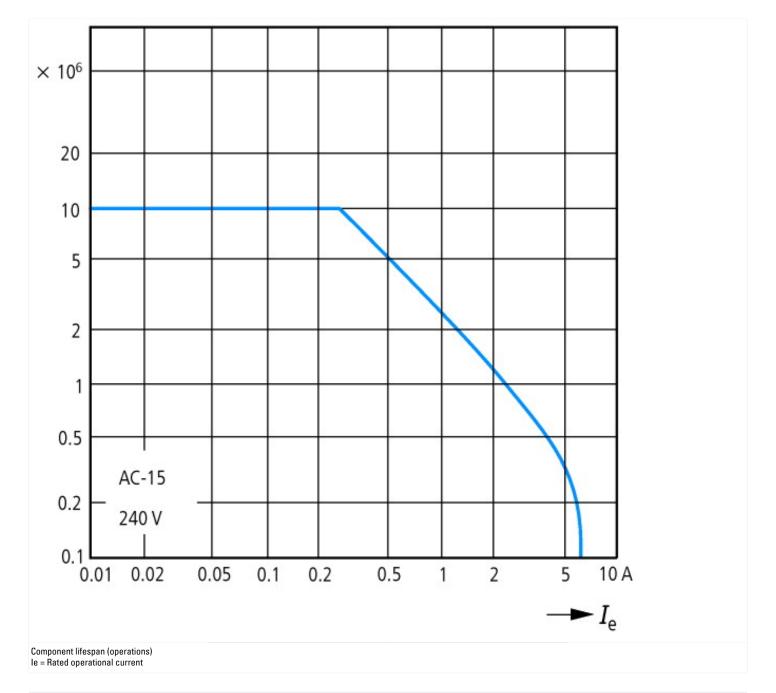
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand 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 5.0

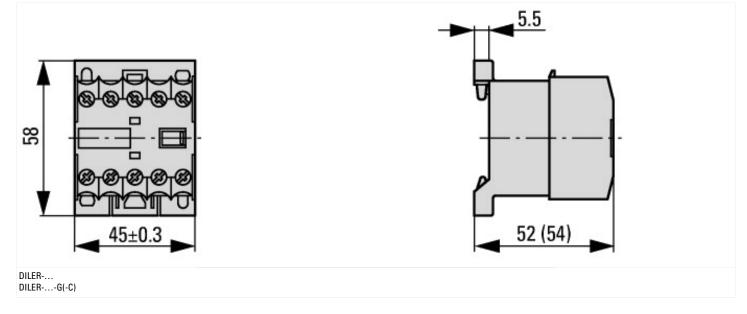
Low-voltage industrial components (EG000017) / Contactor relay (EC000196)

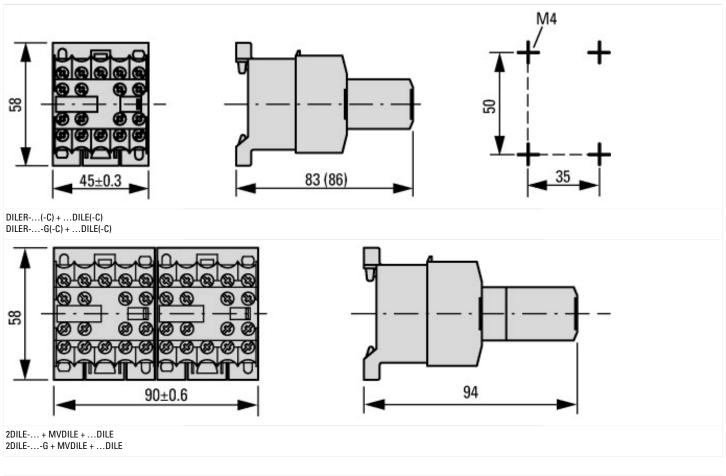
Electric engineering, automation, process control engineering / Low-voltage switch	h technology / Contacto	r (LV) / Contactor relay (ecl@ss8-27-37-10-01 [AAB716010])
Rated control supply voltage Us at AC 50HZ	V	220 - 220
Rated control supply voltage Us at AC 60HZ	V	220 - 220
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Rated operation current le , 400 V	А	3
Connection type auxiliary circuit		Screw connection
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		4
Number of auxiliary contacts as normally closed contact, delayed switching		0
Number of auxiliary contacts as normally open contact, leading		0
Number of auxiliary contacts as change-over contact		0





Dimensions





Additional product information (links)

IL03407009Z (AWA2100-0882) Mini contactor relay

IL03407009Z (AWA2100-0882) Mini contactor relay	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2010_10.pdf
UL/CSA: Approved rating data	http://de.ecat.moeller.net/flip-cat/?edition=HPLTE&startpage=5.84