

Contactor relay, 4N/O, AC

Powering Business Worldwide*

Part no. DILER-40(110V50HZ,120V60HZ)
Article no. 051756
Catalog No. XTRM10A40A

Delivery program

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	$I_{th} = I_e$	Α	10
AC-15			
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _e	Α	3
Contacts			
N/O = Normally open			4 N/O
Contact sequence			A1 13 23 33 43 A2 14 24 34 44
Code number and version of combination			
Distinctive number			40 E
For use with			DILE
Actuating voltage			110 V 50 Hz, 120 V 60 Hz
Voltage AC/DC			AC operation
Instructions			Contact numbers to EN 50011 Coil terminal markings to EN 50005

Technical data

General			
Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10 ⁶	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
Ambient temperature			
Open		°C	-25 - +50
Enclosed		°C	- 25 - 40
Mounting position			
Mounting position			As required, except vertical with terminals A1/A2 at the bottom
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	10
N/C contact		g	8
Degree of Protection			IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Weight			- The state of the
AC operated		kg	0.17
Terminal capacities		mm ²	
		IIIIII	
Screw terminals			4 (0.75 0.5)
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 conmodule	tact		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 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	Α	10
AC-15			
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _e	Α	3
500 V		A	1.5
	I _e	A	1.0
DC current			Switch-on and switch-off conditions based on DC-13, time constant as specified.
Notes			Switch-on and switch-on conditions based on DC-13, time constant as specified.
DC-13 L/R - 15 ms		٨	
Contacts in series:	24.1/	A	25
1	24 V	A	2.5
2	60 V	A	2.5
3	110 V	A	1.5
3	220 V	A	0.5
Control circuit reliability	Failure rate	λ	$<10^{-8}, <$ one failure at 100 million operations (at Ue = 24 V DC, Umin = 17 V, Imin = 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	6
500 V		A fast	10
Current heat loss at I _{th}			

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
Changeover time at 100 % U_{C} (recommended value)			
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

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation In A 6 Heat dissipation per pole, current-dependent P _{vid} W 0.4 Equipment heat dissipation, current-dependent P _{vid} W 0 Static heat dissipation, non-current-dependent P _{vs} W 1.8 Heat dissipation capacity P _{diss} W 0 Operating ambient temperature min. °C -25 Operating ambient temperature max. °C 50	Design verification as per IEG/EN 01439			
Heat dissipation per pole, current-dependent P _{vid} W 0.4 Equipment heat dissipation, current-dependent P _{vid} W 0.5 Static heat dissipation, non-current-dependent P _{vid} W 1.8 Heat dissipation capacity P _{diss} W 0.5 Operating ambient temperature min. Operating ambient temperature min. Operating ambient temperature max. ECC/N 61439 design verification 10.2 Strongth of materials and parts 10.22 Corrosion resistance 10.2.3.1 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 L'tinig 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Inscription of witching devices and components 10.9 Inscription of existence of insulations 10.9 Inscription of existence of insulations 10.9 Inscription of existence of insulations 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.9 Inscription of existence of insulations 10.9 Inscription of existence of insulations 10.9 Insulation properties 10.	Technical data for design verification			
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Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. **C	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. Operating ambient temperature max. ***C*** **C*** 50 **C** 50 **EUEN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 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 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Power-frequency electric strength 10.9 Insulation properties 10.9 Is the panel builder's responsibility.	Static heat dissipation, non-current-dependent	P _{vs}	W	1.8
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10.9.3 Impulse withstand voltage Is the panel builder's responsibility.	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 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.

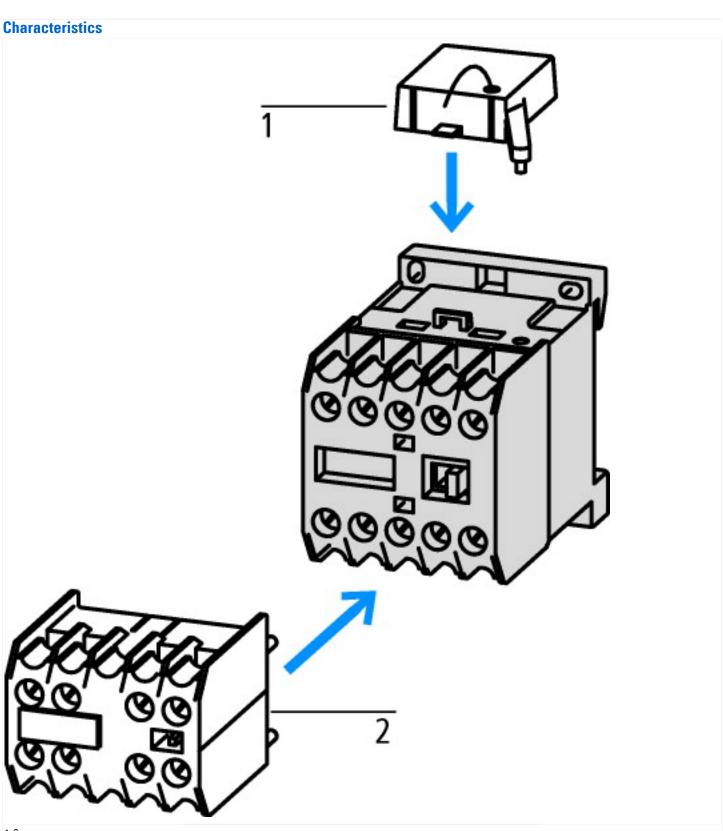
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	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 6.0

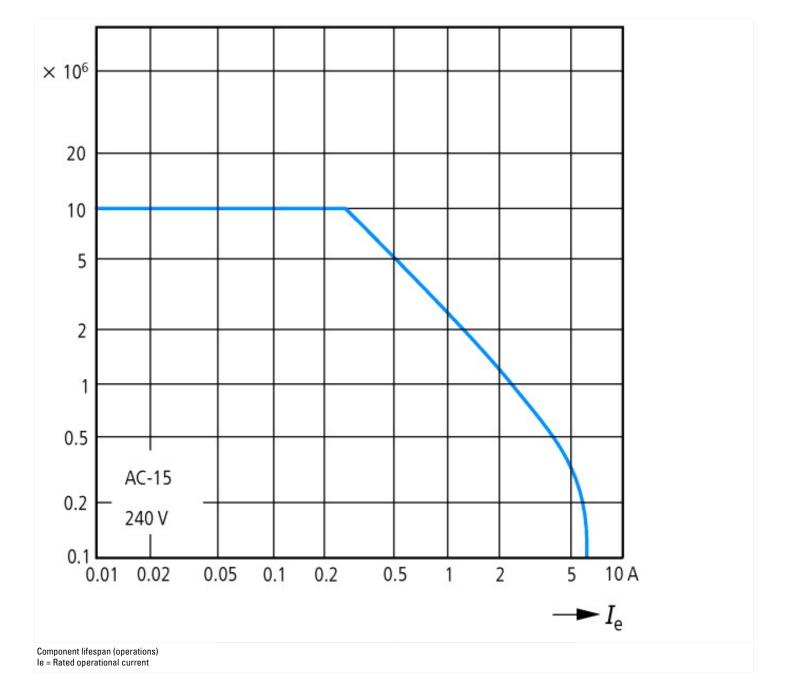
Low-voltage industrial components (EG000017) / Contactor relay (EC000196)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss8.1-27-37-10-01 [AAB716011])			
Rated control supply voltage Us at AC 50HZ	V	110 - 110	
Rated control supply voltage Us at AC 60HZ	V	120 - 120	
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	
Mounting method		DIN-rail/screw	
Interface		No	
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	
With LED indication		No	
Number of auxiliary contacts as change-over contact		0	
Manual operation possible		No	

Approvals

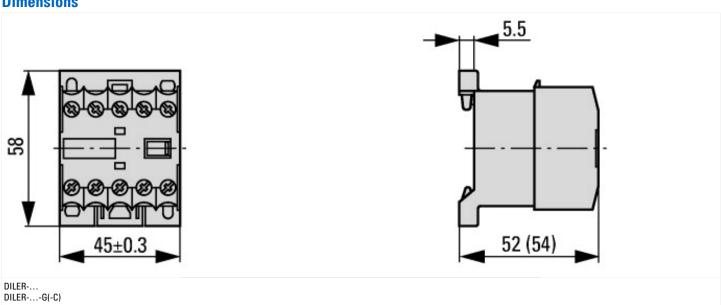
Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Specially designed for North America	No

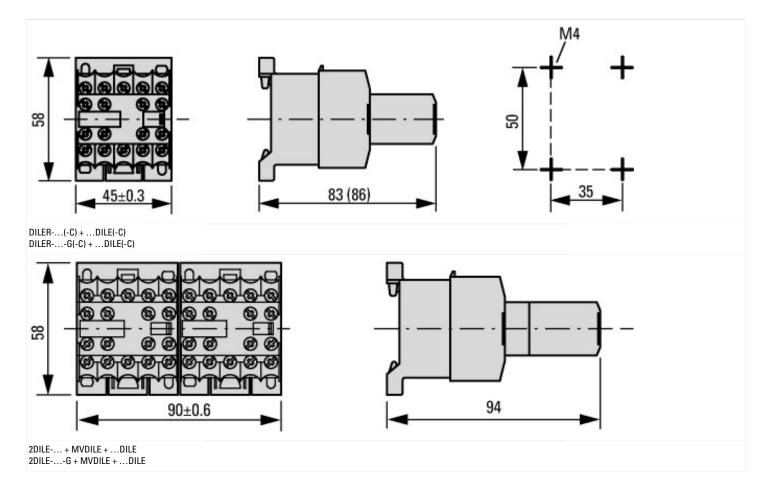


1: Suppressor 2: Auxiliary contact module



Dimensions





Additional product information (links)

Additional product information (iniks)				
IL03407009Z (AWA2100-0882) Mini contactor relay				
IL03407009Z (AWA2100-0882) Mini contactor relay	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2016_03.pdf			
UL/CSA: Approved rating data	http://de.ecat.moeller.net/flip-cat/?edition=HPLTE&startpage=5.84			