DATASHEET - DILER-40(24V50/60HZ)



Contactor relay, 24 V 50/60 Hz, N/O = Normally open: 4 N/O, Screw terminals, AC operation



Part no. Catalog No. Alternate Catalog No.

DILER-40(24V50/60HZ) 021924 atalog XTRM10A40T

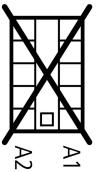
Similar to illustration

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, 1 pole			
Open			
at 50 °C	$I_{th} = I_e$	А	10
AC-15			
220 V 230 V 240 V	I _e	А	6
380 V 400 V 415 V	l _e	А	3
Contacts			
N/O = Normally open			4 N/O
Contact sequence			$\begin{array}{c} A^{1} \\ A^{1} \\ A^{2} \\$
Code number and version of combination			
Distinctive number			40 E
For use with			DILE
Actuating voltage			24 V 50/60 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, EN 60947-5-1, 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



			A1 A2
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
Altitude		m	Max. 2000
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 1 × (18 - 14) 2 × (18 - 14)
Stripping length		mm	8
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			
Interlocked opposing contacts to ZH 1/457, including auxiliary contact module		V A C	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	Ue	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		A	
Conventional free air thermal current, 1 pole			
Open		٨	10
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	A	3
500 V	le	A	1.5
DC current			
Notes			Switch-on and switch-off conditions based on DC-13, time constant as specified.
DC L/R ≦ 15 ms			
Contacts in series:		A	
1	24 V	A	2.5

60 V	А	2.5
		1.5
		0.5
Failure rate	۸	<10 ⁻⁸ , < one failure at 100 million operations (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA)
	PKZM0	4
	PKZM0	4
	A gG/gL	6
	A fast	10
	W	1.1
Pick-up	x U _c	0.8 - 1.1
Pick-up	x U _c	0.85 - 1.1
Hold	VA	5.4 3.9
Sealing	W	1.8 1.8
	% DF	100
	ms	14 - 21
	ms	8 - 18
	ms	45
		A600
		P300
	V	600
	А	10
	V	250
	110 V 220 V Failure rate	110 VA220 VA220 VA20 VAFailure rateA4P4P4P4P4P4P4P4P4P4P4P4P4P4P5P7 </td

Design verification as per IEC/EN 61439

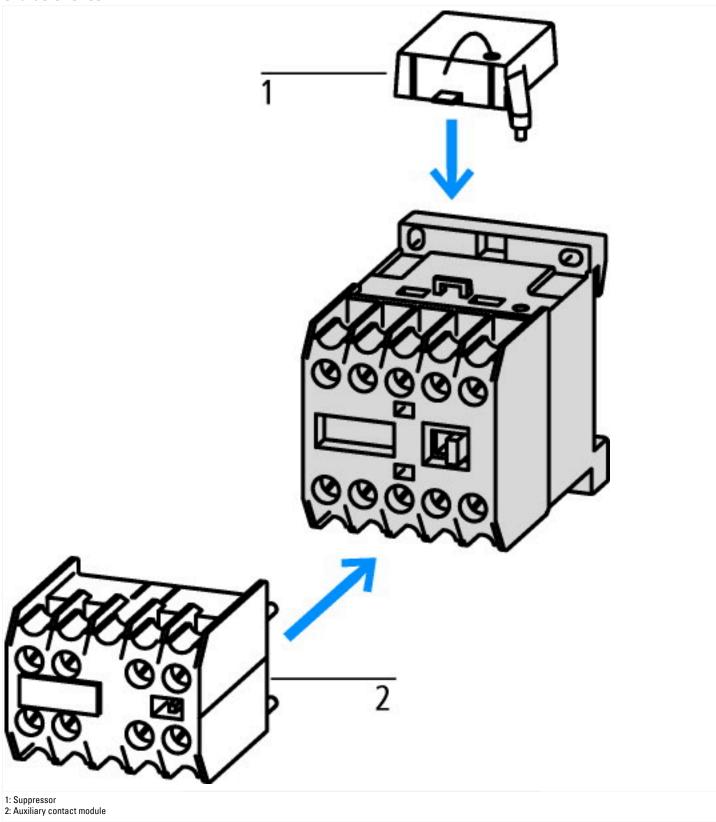
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Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.4
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, 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
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.

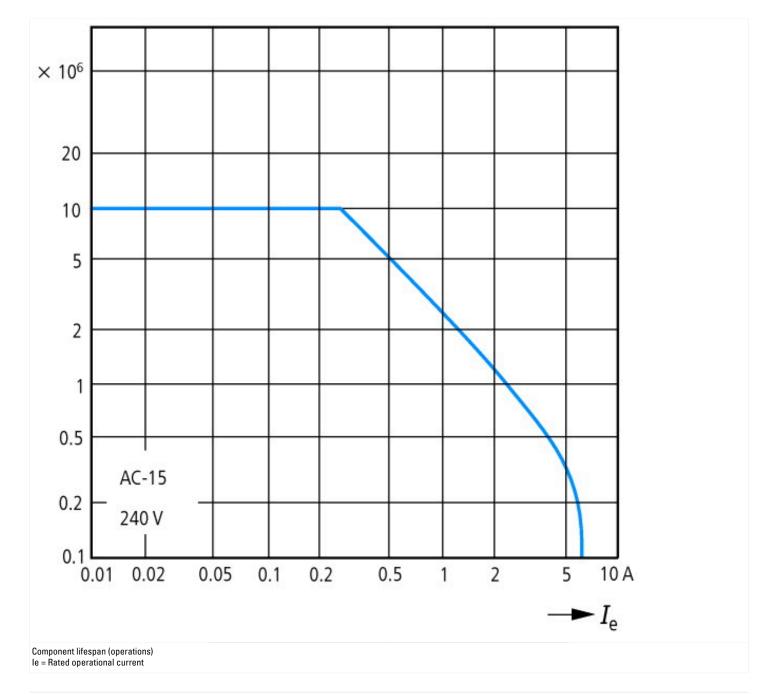
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire 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

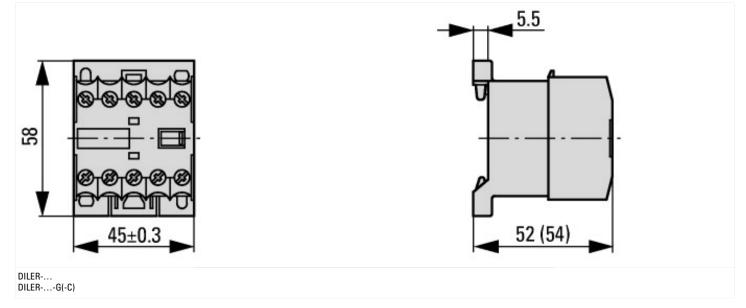
Low-voltage industrial components (EG000017) / Contactor relay (EC000196) Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss10.0.1-27-37-10-01 [AAB716014]) Rated control supply voltage Us at AC 50HZ ٧ 24 - 24 ٧ 24 - 24 Rated control supply voltage Us at AC 60HZ ٧ 0 - 0 Rated control supply voltage Us at DC AC Voltage type for actuating 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 4 Number of auxiliary contacts as normally open contact 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

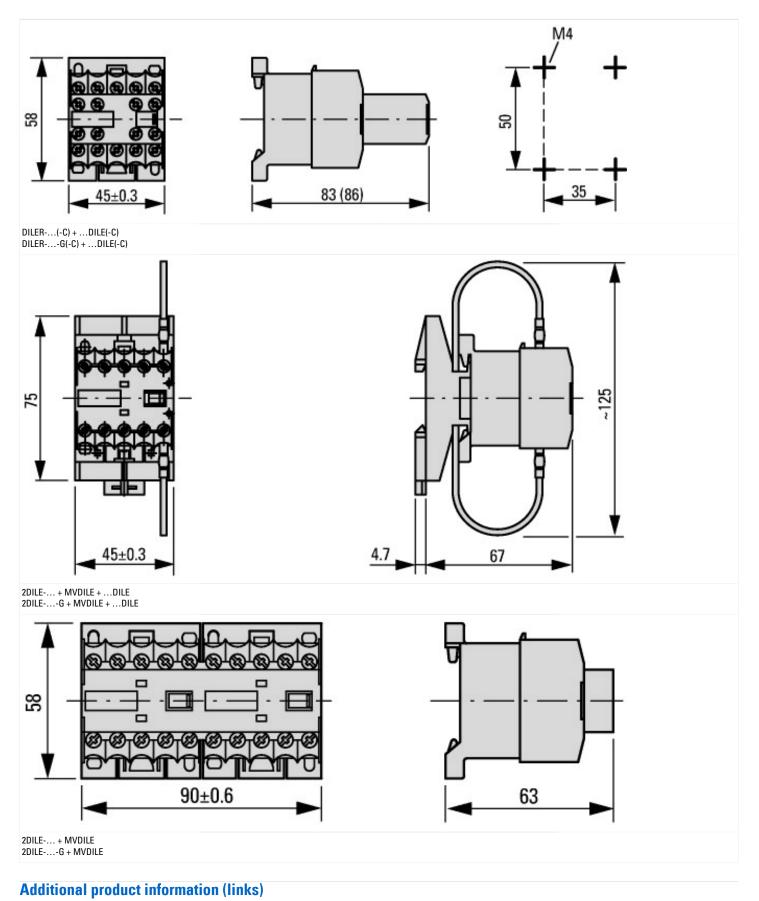
ApprovalsProduct StandardsIEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingUL File No.E29184UL Category Control No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA File No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingCSA Class No.IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingNorth America CertificationIEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE markingSpecially designed for North AmericaIEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking





Dimensions





IL03407009Z (AWA2100-0882) Mini contactor relay

IL03407009Z (AWA2100-0882) Mini contactor https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2020_05.pdf relay