DATASHEET - DILER-40-G(24VDC)



Contactor relay, 24 V DC, N/O = Normally open: 4 N/O, Screw terminals, DC operation



Part no. DILER-40-G(24VDC)

Catalog No. 010223 Alternate Catalog XTRM10A40TD

No.

EL-Nummer 4130356

(Norway)

Similar to illustration

Delivery program

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	$I_{th} = I_e$	Α	10
AC-15			
220 V 230 V 240 V	l _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 T A2 14 24 34 44
Code number and version of combination			
Distinctive number			40 E
For use with			DILE
Actuating voltage			24 V DC
Voltage AC/DC			DC operation
Instructions			Contact numbers to EN 50011 Coil terminal markings to EN 50005 Integrated diode-resistor combination Coil rating 2.6 W

Technical data

General

General			
Standards			IEC/EN 60947, EN 60947-5-1, VDE 0660, UL, CSA
Lifespan, mechanical			
DC operated	Operations	x 10 ⁶	20
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			A A
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			
DC operated		kg	0.211
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 x (18 - 14) 2 x (18 - 14)
Stripping length		mm	8
Terminal screw			M3.5
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5
Marietania		N	1x6
Max. tightening torque Contacts		Nm	1.2
Interlocked opposing contacts to ZH 1/457, including auxiliary contact module			Yes
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree	Шр		III/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	600
Safe isolation to EN 61140	O e	* 710	
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			
at 50 °C	I _{th} =I _e	Α	10
AC-15	ui 6		
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _e	A	3
500 V	I _e	A	1.5
DC current	'e	~	
Notes			Switch-on and switch-off conditions based on DC-13, time constant as specified.
DC L/R ≤ 15 ms			owners on and switcht on conditions based on bo-13, time constant as specified.
Contacts in series:		A	
Contacts in series:	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 U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA) Short-circuit rating without welding Maximum overcurrent protective device 220 V 230 V 240 V PKZM0 4	
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000 V 400 V 41F V	
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}	
DC operated W 1.1	
Magnet systems	
Voltage tolerance	
DC operated	
Notes Smoothed DC, three-phase bridge rectifiers or smoothed double-wa	e rectification
Pick-up voltage 0.85 - 1.3	
at 24 V: without auxiliary contact component (40 °C) Pick-up $x U_c = 0.7 - 1.3$	
Power consumption	
DC operation	
DC operated Pull-in = W 2.3 sealing	
duty factor % DF 100	
Changeover time at 100 % U _S (recommended value)	
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	
Rating data for approved types	
Auxiliary contacts	
Pilot Duty	
AC operated A600	
DC operated P300	
General Use	
AC V 600	
AC A 10	
DC V 250	
DC A 0.5	

Design verification as per IEC/EN 61439

In	Α	6
P _{vid}	W	0.4
P _{vid}	W	0
P _{vs}	W	2.3
P _{diss}	W	0
	°C	-25
	°C	50
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C °C

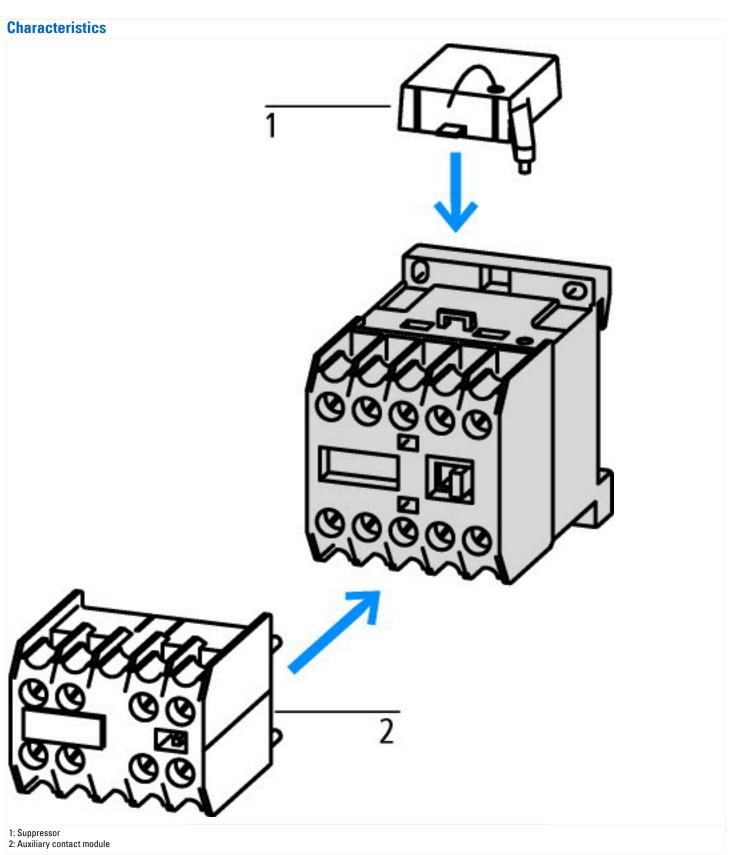
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product 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.

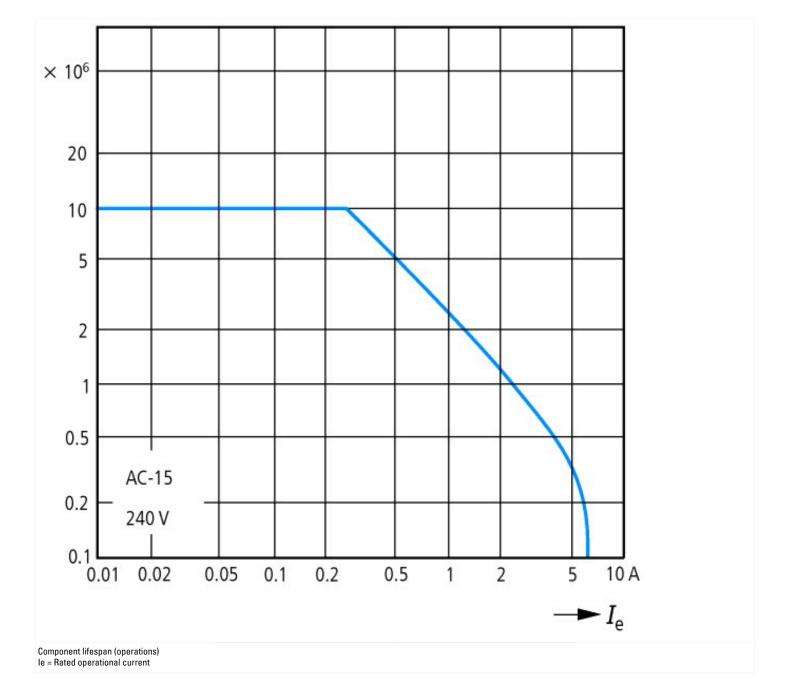
Technical data ETIM 7.0

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	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	24 - 24
Voltage type for actuating		DC
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





Dimensions

