DATASHEET - 40DILE



Auxiliary contact module, 4 pole, 4 N/O, Screw terminals



Part no. 40DILE Catalog No. 010304 Alternate Catalog XTMCXFA40

No.

EL-Nummer 4130376

(Norway)

Delivery program

Delivery program			
Accessories			Auxiliary contact modules
Description			with interlocked opposing contacts Switching elements according to EN 50005 Switching elements according to EN 50012 are to be preferred. Version E combinations correspond to EN 50011 and are to be preferred.
Function			for standard applications
Number of poles			4 pole
Connection technique			Screw terminals
Rated operational current			
AC-15			
220 V 230 V 240 V	I _e	Α	4
380 V 400 V 415 V	I _e	Α	2
Contacts			
N/O = Normally open			4 N/O
Mounting type			Front fixing
Contact sequence			$-\frac{1}{54} \frac{63}{64} \frac{73}{74} \frac{83}{84}$
For use with			DILEM-10(-G)() DILEM-01(-G)() DILER40(-G) DILER31(-G) DILER22 DILEEM-10(-G)() DILEEM-10(-G)() DILEEM-01(-G)() DILEM12-10(-G)() DILEM12-10(-G)()
Instructions			Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside the auxiliary contact modules, also for the integrated auxiliary contacts of the DILE(E)M Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)
Code number and version of combination			
Distinctive number			80E
with basic device			DILER-40(-G)
			71
with basic device			DILER-31(-G)
			62
with basic device			DILER-22

Technical data

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
Component lifespan at $U_e = 240 \text{ V}$			
AC-15	Operations	x 10 ⁶	0.2
DC			

Operations/h	x 10 ⁶ °C °C	9000 Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Gpc. duoisyn		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
		Damp heat, cyclic, to IEC 60068-2-30
		-25 - +50
		-25 - +50
	°C	
		- 25 - 40
	°C	- 40 - 80
		As required, except vertical with terminals A1/A2 at the bottom
	g	
	g	10
	g	8
		IP20
		Finger and back-of-hand proof
	kg	0.04
	mm ²	
	mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
	2	1 x (0.75 - 1.5)
	mm²	2 x (0.75 - 1.5)
	AWG	Single 18 – 14/Double 18 – 14
		M3.5
	Size	2
	mm	0.8 x 5.5
	Nim	1×6
	NM	1.2
		Yes
U _{imp}	V AC	6000
		111/3
Ui	V AC	690
U _e	V AC	600
	V AC	300
	V AC	300
	Α	
		At maximum permissible ambient air temperature.
I _{th}	Α	10
l _e	Α	4
I _e	Α	2
I _e	Α	1.5
		Switch-on and switch-off conditions based on DC-13, time constant as specified.
	Α	
24 V	Α	2.5
60 V	Α	2.5
110 V	Α	1.5
220 V	Α	0.5
Failure rate	λ	<10 ⁻⁸ , < one failure at 100 million operations
	U _{imp} U _i U _e U _e I _{th} I _e I _e I _e 24 V 60 V 110 V 220 V	Size mm Nm Nm V AC V AC V AC V AC A Ie A A A A A A A A A

		(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
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	1.5
DC operated	W	1.5
Current heat loss per auxiliary circuit at $I_{\rm e}$ (AC-15/230 V)	CO	0.24
Rating data for approved types		

Rating data for approved type:

Auxiliary contacts		
Pilot Duty		
AC operated		A600
DC operated		P300
General Use		
AC	V	600
AC	Α	10
DC	V	250
DC	Α	0.5

Design verification as per IEC/EN 61439

Design vernication as per 126/214 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	4
Heat dissipation per pole, current-dependent	P _{vid}	W	0.24
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
EC/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.

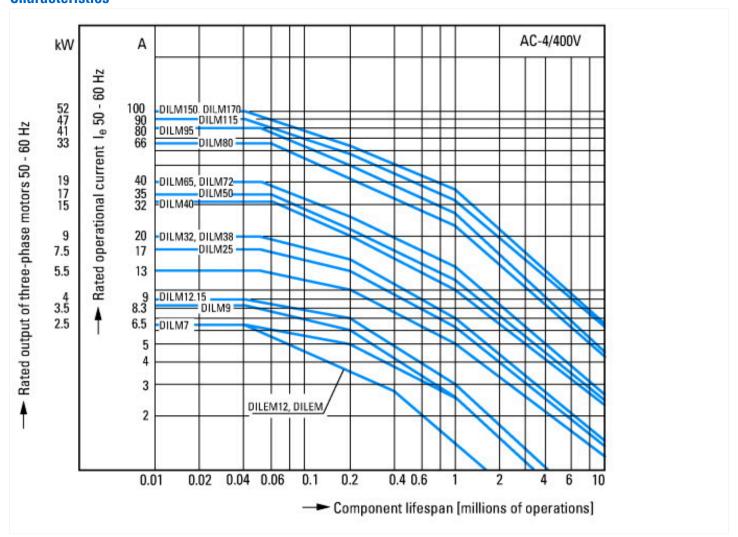
Technical data ETIM 7.0

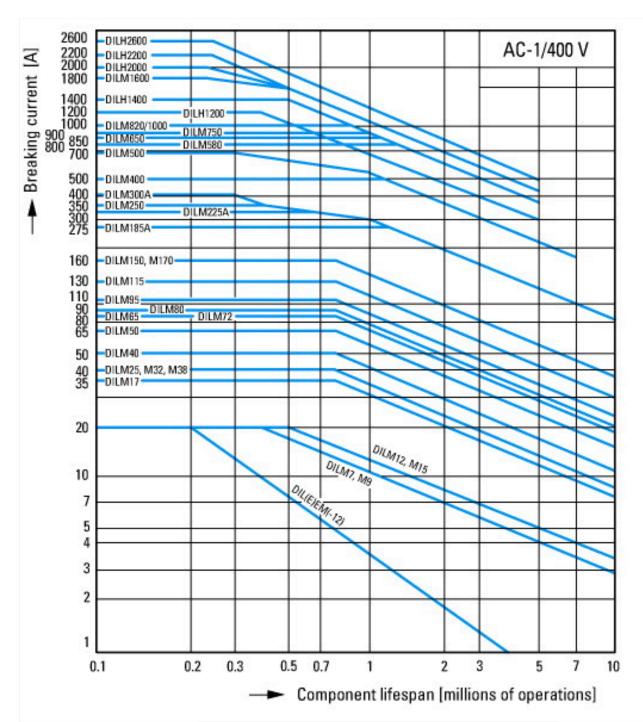
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])			
Number of contacts as change-over contact 0			
Number of contacts as normally open contact			4
Number of contacts as normally closed contact			0
Number of fault-signal switches			0
Rated operation current le at AC-15, 230 V		Α	4
Type of electric connection			Screw connection
Model			Top mounting
Mounting method			Front fastening
Lamp holder			None

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

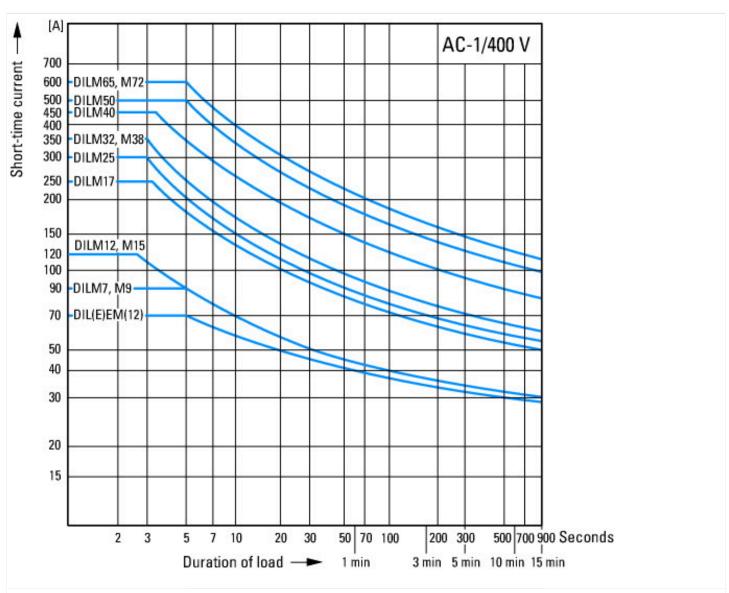
Characteristics





Switching duty for non-motor loads, 3-pole, 4-pole Operating characteristics
Non-inductive or slightly inductive loads
Electrical characteristics
Make: 1 x rated current
Break: 1 x rated current
Utilization category
100 % AC-1

Typical applications Electric heat



Short-time loading, 3-pole

Time interval between two loading cycles: 15 minutes

Dimensions

