Auxiliary contact module, 4 pole, 2 N/O, 2 NC, Front fixing, Screw terminals, DILE(E)M, DILER



22DILE
010288
XTMCXFA22
4130375

Delivery program

AC-15 Image: Construction of the second				
Number of poles Switching elements according to EN 30005 kontains Number of poles for standard applications Number of poles for standard applications Number of poles for standard applications Act-16 Secret terminals Act-15 Secret terminals 20V 230 V 240 V 415 V le A No - Normali vapen le A No - Normali vapen I Normali vapen No - Normali vapen Normali vapen Normali vapen No - Normali vapen Normali vapen Normali vapen Normali vapen Normali	Accessories			Auxiliary contact modules
Number of poles 4 pole Connection technique Serve terminals Rated operational current Serve terminals AC-15 Image: Connection technique 220 V 230 V 240 V Image: Connection technique 300 V 400 V 15 V Image: Connection technique N/G - Normally open Image: Connection technique N/G - Normally open 2 N/O N/G - Normally open 2 N/O N/G - Normally open Contact: For use with Contact: Serve vertice Serve vertice N/G - Normally open Contact: For use with Contact: Serve vertice Serve vertice Serve vertice	Description			Switching elements according to EN 50005 Switching elements according to EN 50012 are to be preferred.
Connection technique Forew terminals Reted operational current Image: Connection technique Image: Connection technique AC-15 Image: Connection technique Image: Connection technique 220 V200 V240 V Image: Connection technique Image: Connection technique 380 V400 V415 V Image: Connection technique Image: Connection technique N/0 = Normally open Image: Connection technique Image: Connection technique N/0 = Normally closed Image: Connection technique Image: Connection technique Mounting type Image: Connection technique Image: Connection technique For use with Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Code number and version of combination Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Image: Connection technique Connection technique Image: Connection technique Image:	Function			for standard applications
Act 15 Image: Control in the second seco	Number of poles			4 pole
AC-15 Image: Contracts Image: Con	Connection technique			Screw terminals
220 V230 V240 V Is A 4 380 V400 V15 V Is A 2 Contacts V0 = Normally open V0 2N0 2N0 N0 = Normally closed V 2N0 2N0 Mounting type For task with P For task with P 10EM-10F-0(N) For use with DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIERATI-0(S) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIERATI-0(S) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIERATI-0(S) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIERATI-0(S) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N) DIEM-10F-0(N)	Rated operational current			
380 400 V 415 V Io Io </td <td>AC-15</td> <td></td> <td></td> <td></td>	AC-15			
Contacts N/O = Normally open 2 N/O N/C = Normally closed 2 N/O Mounting type For trixing For use with DILEM-10(-6)() DILEM-40(-6),) DILEM-40(-6),) DILEM-10(-6)() DILEM-10(-6)()	220 V 230 V 240 V	l _e	А	4
N0 = Normally open 2 N/0 N0 = Normally closed 2 NC Mounting type Front fixing For use with VIEW-101-69() DILEM-101-69() DILEM-101-69() DIstinctive number E E with basi	380 V 400 V 415 V	l _e	А	2
WC = Normaly closed 2 NC Mounting type Front fixing For use with DILEM-10(-6)() DILEM-0(-6)() DILEM-0(-6)() Distinctive number 62 with basic device DILEM-0(-6) with basic device DILEM-0(-6) with basic device DILEM-0(-6) with basic device DILEM-0(-6) <t< td=""><td>Contacts</td><td></td><td></td><td></td></t<>	Contacts			
Mounting type Fort fixing For use with Fort fixing For use with DILEM +10(-G(I) DILEM +4(-S)() DILEM +4(-S)() DILEM +10(-G)() DILEM +10(-G)() DILEM +10(-G)() DILEM +10(-G)() Instructions Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L inside the auxiliary contacts of the DILECE/IN 0010-5(I) DILEM +10(-G)() Instructions Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L inside the auxiliary contacts of the DILECE/IN Auxiliary contacts according to IEC/EN 60947-4-1 Appendix F (not NC late open) Code number and version of combination EMEM EMEM EMEM EMEM EMEM EMEM EMEM EME	N/O = Normally open			2 N/O
For use with DILEM-10(-6)() For use with DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6)() DILEM-4(-6) DILEM-4(-6)() DILEM-4(-6) DILEM-4(-6)() DILEM-4(-6) DILEM-4(-6)() DILEM-4(-6) DILEM-4(-6)() DILEM-4(-6) DILEM-4(-6)() DILEM-4(-6) Auxiliary contacts according to IEC/EN 60947-5-1 appendix L, inside the auxiliary contact used as mirror contacts according to IEC/EN 60947-4-1 Appendix L, inside the auxiliary contact used as mirror contacts according to IEC/EN 60947-4-1 Appendix L, inside the auxiliary contact used as mirror contacts according to IEC/EN 60947-4-1 Appendix L, inside the auxiliary contact used as mirror contacts according to IEC/EN 60947-4-1 Appendix L, inside the auxiliary contact used as mirror contacts according to IEC/EN 60947-4-1 Appendix L, inside the auxiliary contact used as mirror contacts according to IEC/EN 60947-4-1 Appendix L, inside the auxiliary contact used as mirror contacts according to IEC/EN 60947-4-1 Appendix L, inside the auxiliary contact used as mirror c	N/C = Normally closed			2 NC
Instructions DiLEM-01(-6)() Instructions DiLEM-10(-6)() Dilemater and version of combination Difemater and version of combination Distinctive number Difemater and version of combination with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination image: with basic device Difemater and version of combination <td>Mounting type</td> <td></td> <td></td> <td>Front fixing</td>	Mounting type			Front fixing
Code number and version of combination Mathematical states of the integrated auxiliary contacts of the DILE(E)N Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) Distinctive number E with basic device E with basic device ILER-40(-G) with basic device 53 with basic device ILER-31(-G) ILER-31(-G) 44	For use with			DILEM-01(-G)() DILER40(-G) DILER31(-G) DILER31(-G) DILEEM-10(-G)() DILEEM-10(-G)() DILEEM-01(-G)()
Distinctive number 62E with basic device 53 with basic device 62E with basic device 53 With basic device 62E	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)N Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)
with basic device IMA IMA	Code number and version of combination			
with basic device 53 DLLER-31(-G) 44	Distinctive number			62E
with basic device DILER-31(-G) 44	with basic device			DILER-40(-G)
44				53
	with basic device			DILER-31(-G)
with basic device DILER-22				44
	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 V			
AC-15	Operations	x 10 ⁶	02
DC			
L/R = 50 ms: 2 contacts in series at I_{e} = 0.5 A	Operations	x 10 ⁶	0.15
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
Ambient temperature, storage		°C	- 40 - 80
Mounting position		U U	
Mounting position			As required, except vertical with terminals A1/A2 at the bottom
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		9	IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Weight		kg	0.04
Terminal capacities			
		mm ²	
Screw terminals			1(0.75
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	Single 18 – 14/Double 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			
Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5-	I		Yes
Annex L)			
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		А	
Conventional free air thermal current, 1 pole			
Notes			At maximum permissible ambient air temperature.
Conv. thermal current	I _{th}	А	10
AC-15			
220 V 230 V 240 V	I _e	A	4
380 V 400 V 415 V	le	A	2
500 V	le	A	1.5
DC current			
			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
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	
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 Ith			
AC operated	W	1.5	
DC operated	W	1.5	
Current heat loss per auxiliary circuit at $\rm I_{e}$ (AC-15/230 V)	CO	0.24	
Rating data for approved types			
Auxiliary contacts			

	A600
	P300
V	600
А	10
V	250
А	0.5
	A V

Design verification as per IEC/EN 61439

Design vermoution as per reo/en or-tos			
Technical data for design verification			
Rated operational current for specified heat dissipation	l _n	А	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
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.

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

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			2
Number of contacts as normally closed contact			2
Number of fault-signal switches			0
Rated operation current le at AC-15, 230 V		А	4
Type of electric connection			Screw connection
Model			Top mounting
Mounting method			Front fastening
Lamp holder			None