## **DATASHEET - 20DILE**

Auxiliary contact module, 2 pole, 2 N/O, Front fixing, Screw terminals,



	DILE(E)M, DILER			Powering Business Worldwide"	
	Part no.	20DILE 010208		0	
General specifications	5				
Product name			E	Eaton Moeller® series DILE Accessory Auxiliary contact module	
Part no.			2	20DILE	
EAN			4	4015080102083	
Product Length/Depth			3	36 millimetre	
Product height			3	32 millimetre	
Product width			4	15 millimetre	
Product weight			0	0.03 kilogram	
Certifications			u u c c u u c c u u c u u u c u u u u u	CSA JL JL Category Control No.: NKCR CSA-C22.2 No. 14-05 SE JL 508 CSA File No.: 012528 CSA Class No.: 3211-03 EC/EN 60947-4-1 //DE 0660 JL File No.: E29184 EC/EN 60947	
Product Tradename			D	DILE	
Product Type			А	Accessory	
Product Sub Type			A	Auxiliary contact module	
Catalog Notes			A C II a R f ti S S	Auxiliary contacts used as mirror contacts (according to IEC/EN 60947-4-1 Appendix F (not N/C late open)) Conventional thermal current at maximum permissible ambient air temperature. 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 Rated operational current: Switch-on and switch-off conditions based on DC-13, ime constant as specified. Switching elements according to EN 50012 are to be preferred. Version E combinations correspond to EN 50011 and are to be preferred.	
Features & Functions					
Electric connection type			S	Screw connection	
Features				nterlocked opposing contacts within an auxiliary contact module (according to IEC 50947-5-1 Annex L)	
Fitted with:				Switching elements according to EN 50005 interlocked opposing contacts	
Functions			F	For standard applications	
Number of poles			т	Two-pole	
General information					
Degree of protection			I	P20	
Lifespan, mechanical			1 2 1	20,000,000 Operations (DC operated) 10,000,000 Operations (AC operated) 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)	
Model				For mounting	
Mounting method				Front fastening	
Mounting position				As required (except vertical with terminals A1/A2 at the bottom)	
On a ration of for-				000 Oneretions /h	

9000 Operations/h

ш

3

Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

6000 V AC

10 g, N/O contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

8 g, N/C contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

**Operating frequency** 

Overvoltage category

Rated impulse withstand voltage (Uimp)

Pollution degree

Shock resistance

Protection

Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	40°C
Ambient storage temperature - max	80 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30
	Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (flexible with ferrule)	2 x (0.75 - 1.5) mm <sup>2</sup> 1 x (0.75 - 1.5) mm <sup>2</sup>
Terminal capacity (solid)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup>
Terminal capacity (solid/stranded AWG)	Single 18 – 14, double 18 – 14
Screw size	M3.5, Terminal screw
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque	1.2 Nm, Screw terminals
Electrical rating	
Rated operational voltage (Ue) at AC - max	600 V
Rated insulation voltage (Ui)	690 V
Rated operational current (Ie)	1.5 A at 110 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 0.5 A at 220 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 2.5 A at 60 V, DC L/R $\le$ 15 ms (with 2 contacts in series) 2.5 A at 24 V, DC L/R $\le$ 15 ms (with 1 contact in series)
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	4 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	2 A
Rated operational current (Ie) at AC-15, 500 V	1.5 A
Safe isolation	300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140
Short-circuit rating	
Short-circuit protection rating	10 A fast, 500V, Maximum fuse, Short-circuit rating without welding, Contacts
Short-circuit protection rating without welding	6 A gG/gL, 500 V, Max. Fuse, Contacts
Conventional thermal current Ith	
Conventional thermal current ith of auxiliary contacts (1-pole, open)	10 A
Switching capacity	
Switching capacity (auxiliary contacts, general use)	0.5 A, 250 V DC, (UL/CSA)
Switching conscitu (swilling contents pilot dutu)	10 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
Contacts	
Code number	60E 51 in combination with DILER-31(-G) 42 in combination with DILER-22
Control circuit reliability	$<$ 2 $\lambda,<$ 1 failure at 100,000,000 Operations (at U# = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	0
Number of contacts (normally open contacts)	2
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.24 W
Rated operational current for specified heat dissipation (In)	4 A
Static heat dissipation, non-current-dependent Pvs	0 W
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.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 8.0**

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Tecnología electrónica, de automatización y de mando de procesos / Tecnología de conmutación de baja tensión / Componente para tecnología de conmutación de baja tensión / Bloque de conmutación auxiliar (ecl@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as normally open contact   2     Number of contacts as normally closed contact   0     Number of fault-signal switches   0     Rated operation current le at AC-15, 230 V   A     Yupe of electric connection   Screw connection     Model   Top mounting     Mounting method   G   Font fastening			
Number of contacts as normally closed contact   Implement of contacts as normally closed contact     Number of fault-signal switches   Implement of contacts as normally closed contact     Number of fault-signal switches   Implement of contacts as normally closed contact     Rated operation current le at AC-15, 230 V   Implement of contacts as normally closed contact     Type of electric connection   Implement of contacts     Model   Screw connection     Mounting method   Implement of contacts	Number of contacts as change-over contact		0
Number of fault-signal switches Mumber of fault-signal switches Mumb	Number of contacts as normally open contact		2
Rated operation current le at AC-15, 230 V A 4   Type of electric connection Screw connection   Model Top mounting   Mounting method Col	Number of contacts as normally closed contact		0
Type of electric connection Screw connection   Model Top mounting   Mounting method Image: Screw connection	Number of fault-signal switches		0
Model Top mounting   Mounting method Model	Rated operation current le at AC-15, 230 V	А	4
Mounting method Front fastening	Type of electric connection		Screw connection
	Model		Top mounting
Lamp holder None	Mounting method		Front fastening
	Lamp holder		None