DATASHEET - DILM820-XHI11-SI

Auxiliary contact module, 2 pole, Ith= 10 A, 1 N/O, 1 NC, Side mounted, Screw terminals, DILM250 - DILH2600, SI

Part no.	**DILM820-XHI11-SI**
	208281
EL Number (Norway)	**4110236**

General specifications

Product name	Eaton Moeller® series DILM auxiliary contact module
Part no.	DILM820-XHI11-SI
EAN	4015082082819
Product Length/Depth	77 millimetre
Product height	77 millimetre
Product width	15 millimetre
Product weight	0.037 kilogram
Certifications	UL Category Control No.: NKCR CSA File No.: 012528 CE UL File No.: E29184 IEC/EN 60947-4-1 UL 508 IEC/EN 60947 UL CSA VDE 0660 CSA-C22.2 No. 14-05 CSA Class No.: 3211-04
Product Tradename	DILM
Product Type	Accessory
Product Sub Type	Auxiliary contact module

Features & Functions

Features	Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L)
Functions	For standard applications
Fitted with:	Interlocked opposing contacts
Number of poles	Two-pole
Electric connection type	Screw connection

General information

Connection	Screw terminals
Degree of protection	IP20
Lifespan, electrical	1,300,000 Operations (at 230 V, AC-15, 3 A)
Model	Top mounting
Mounting method	Side mounting
Overvoltage category	III
Pollution degree	3
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	6000 V 6000 V AC
Type	Side-mounting auxiliary contacts

Climatic environmental conditions

Ambient operating temperature - min	-40 °C
Ambient operating temperature - max	60 °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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities

Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm^2 1 x (0.75 - 2.5) mm^2
Terminal capacity (solid)	1 x (0.75 - 2.5) mm^2 2 x (0.75 - 2.5) mm^2
Terminal capacity (solid/stranded AWG)	18 - 14
Screw size	M3.5, Terminal screw, Control circuit cables
Screwdriver size	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Control circuit cables, Pozidriv screwdriver
Tightening torque	1.2 Nm, Screw terminals
Electrical rating	
Rated operational current (Ie)	6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	4 A
Rated operational current (Ie) at AC-15, 500 V	1.5 A
Rated operational current (Ie) at DC-13, 24 V	2 A
Rated operational current (Ie) at DC-13, 60 V	1.5 A
Rated operational current (Ie) at DC-13, 110 V	0.8 A
Rated operational current (Ie) at DC-13, 220 V, 230 V	0.3 A
Rated insulation voltage (Ui)	690 V
Rated operational voltage (Ue) at AC - max	500 V
Short-circuit rating	
Rated conditional short-circuit current (Iq)	1 kA at 500 V
Short-circuit protection rating	FAZ-C4/1, Maximum overcurrent protective device, Short-circuit rating without welding, Short-circuit protection only, Contacts Max. 16 A gG/gL, Fuse, Without welding, Auxiliary contacts
Short-circuit protection rating without welding	16 A gG/gL, 500 V, Max. Fuse, Contacts
Conventional thermal current Ith	
Conventional thermal current ith at 60°C (3-pole, open)	10 A
Switching capacity	
Switching capacity (auxiliary contacts, general use)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
Contacts	
Control circuit reliability	$\lambda < 5 \times 1/10^7$ (1 failure at 2,000,000 operations for U# = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	1
Safety	
Safe isolation	440 V AC, Between auxiliary contacts and main contacts, According to EN 61140 440 V AC, Between auxiliary contacts, According to EN 61140 440 V AC, Between coil and auxiliary contacts, According to EN 61140
Design verification	
Equipment heat dissipation, current-dependent Pvid	0.25 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.11 W
Rated operational current for specified heat dissipation (In)	6 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.
10.2.3.2 Verification of resistance of insulating materials to normal heat	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 9.0

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@ss13-27-37-13-02 [AKN342018])			
Number of contacts as change-over contact			0
Number of contacts as normally open contact			1
Number of contacts as normally closed contact			1
Number of fault-signal switches			0
Rated operation current Ie at AC-15, 230 V		A	6
Type of electric connection			Screw connection
Model			Clip-on
Mounting method			Side mounting
Lamp holder			None