DATASHEET - DILM150-XHI22

Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, DILM40 - DILM170

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Part no.	DILM150-XHI22
	277950
EL Number (Norway)	4130497

General specifications

Product name		Eaton Moeller® series DILM auxiliary contact module
Part no.		DILM150-XHI22
EAN		4015082779504
Product Length/Depth		39 millimetre
Product height		46 millimetre
Product width		45 millimetre
Product weight		0.055 kilogram
Certifications		CSA-C22.2 No. 14-05
		CSA File No.: 012528
		UL File No.: E29184
		CE
		UL Category Control No.: NKCR
		IEC/EN 60947
		UL 508
		CSA Class No.: 3211-03
		VDE 0660
		UL
		IEC/EN 60947-4-1
		CSA
Product Tradename		DILM
Product Type		Accessory
Product Sub Type		Auxiliary contact module
Catalog Notes		Auxiliary contacts used as mirror contacts (according to IEC/EN 60947-4-1 Appendix F (not N/C late open))
		Interlocked opposing contacts according to IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact module
		Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified.

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		Four-pole
Electric connection type		Screw connection

General information

Degree of protection		IP20
Lifespan, electrical		1,300,000 Operations (at 230 V, AC-15, 3 A)
Model		Top mounting
Mounting method		Front fastening
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 AC
Type		Front mounting auxiliary contact

Ambient conditions, mechanical

Shock resistance		5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
		7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

Climatic environmental conditions

Ambient operating temperature - min		-25 °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) mm² 1 x (0.75 - 2.5) mm²
Terminal capacity (solid)		2 x (0.75 - 2.5) mm² 1 x (0.75 - 2.5) mm²
Terminal capacity (solid/stranded AWG)		18 - 14
Screwdriver size		0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, 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 insulation voltage (Ui)		690 V
Rated operational voltage (Ue) at AC - max		500 V

Short-circuit rating

Short-circuit protection rating		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)		16 A

Switching capacity

Switching capacity (auxiliary contacts, general use)		15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)		P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)

Communication

Connection type		Screw connection

Contacts

Control circuit reliability		< 2 λ, < 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)		2
Number of contacts (normally open contacts)		2

Safety

Safe isolation		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 W
Heat dissipation capacity Pdiss		0 W
Heat dissipation per pole, current-dependent Pvid		0.23 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.
10.2.3.2 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 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 Ie at AC-15, 230 V	A	6
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Front fastening
Lamp holder		None