

SWITCHES

STANDARD FAMILY CODE LTHM15011XAA0

Туре	LTHMD 1500
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating [Vdc]	24 - 36 - 72 - 110 ¹
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Feedback Signal Scope	AUX C (a0, b0)
	AUX D (a1, b1)
Block Type	PBX
Main Contacts tips Material	Cu
Electric Diagram	SC27674
Layout Drawing	D54933

 $^{^{\}mbox{\tiny 1}}$ To be specified in order phase.



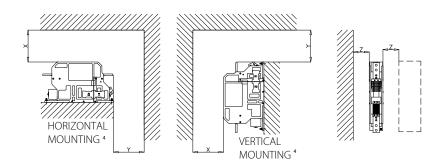
Description

Disconnector switch, electric motor control with 2 auxiliary relay, 2 positions, bi-stable. Reference standard IEC 60077-2(2017), IEC 61992 and IEC 60947.

Electrical Characteristics	
Rated Operational Voltage [Vac / Vdc]	3600
Max Operational Voltage [Vac / Vdc]	4000
Conventional Free Air Thermal Current [A] at 40°C ²	1500
Conventional Free Air Thermal Current [A] at 75°C ²	1350
Main circuit resistance $[\mu\Omega]^3$	60
DC-Rated Operational Current (τ=15ms) [A]	0
DC-Maximum Breaking Capacity (τ=5ms) [A]	0.2
AC-Maximum Breaking Capacity (cosφ=0,8) [A]	0.5
Short Circuit Withstand Capacity for 5ms [kA]	140
Component Category / Operational Frequency Class	A4 / C3
Insulation Characteristics	
Rated Insulation Voltage [V]	4000
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3/OV3
Rated impulse voltage [kV]	30
Rated Power Frequency Withstand Voltage (50Hz; 60")	
Between HV to LV circuit + Earth [V]	10000
Between open contacts [V]	7900
Between each pole (if more than 1) [V]	10000
Between LV circuit to Earth [V]	1500
Minimum clearance distance Between open contacts [mm]	32
Minimum clarence distance between power circuit to earth [mm]	40
Minimum creapage distance	50
Willing Creapage distance	

 $^{^{2}}$ Device cabled according IEC 60947 $^{-3}$ In new and clean condition for power loss calculation only

⁴ Other mounting positions not allowed

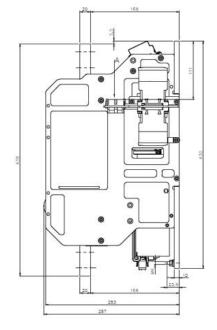


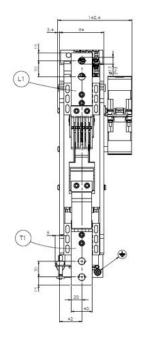
Minimum clearances [mm] from:					
Rated Operational Voltage		X	Υ	Z	
4000V	Metal Parts	50	50	30	
	Plastic Parts	30	30	30	

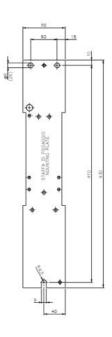
Mechanical Characteristics	
Mechanical Endurance (cycles)	2.5x10 ⁵
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	9.8
Control Circuit	
Control Voltage Range	0.7Uc ÷ 1.25Uc
Power Consumption (U_c and $T = 20$ °C) at Pick Up - when Holding [W]	35 - 0
Mechanical Operation Time (Uc and T = 20° C) when Closing - Opening [ms]	3000 - 3000
Mechanical Operation Time (in the worst condition) [ms]	6000 - 6000
Electrical Connections	Low voltage connector SOURIAU SMS24R3
Auxiliary Contacts	
Rated Operational Voltage [Vac / Vdc]	250
	200
Conventional Free Air Thermal Current [A] at 40° C	10
Conventional Free Air Thermal Current [A] at 40° C Tips material Rated Current [A]	
	10 Silver Alloy (Optional: Golden
Tips material Rated Current [A]	10 Silver Alloy (Optional: Golden Plated)
Tips material Rated Current [A] Minimum Let-Through Current at 24/72/110V _{dc} [mA] ⁵	10 Silver Alloy (Optional: Golden Plated) 20(10)/15(7.5)/10(5) Low voltage connector SOURIAU
Tips material Rated Current [A] Minimum Let-Through Current at 24/72/110V _{dc} [mA] ⁵ Electrical Connections	10 Silver Alloy (Optional: Golden Plated) 20(10)/15(7.5)/10(5) Low voltage connector SOURIAU
Tips material Rated Current [A] Minimum Let-Through Current at 24/72/110V _{dc} [mA] ⁵ Electrical Connections Environmental Conditions	10 Silver Alloy (Optional: Golden Plated) 20(10)/15(7.5)/10(5) Low voltage connector SOURIAU SMS24R3

⁵ Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. For different working condictions, please contact Microelettrica.

⁶ In according to IEC50125-1







The technical specifications reported are not binding and they should be agreed in the contract.

For further technical information on our products visit www.microelettrica.com

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