

SWITCHES

STANDARD FAMILY CODE LTHM15002XA00

Туре	LTHMU 1500
Number of Poles	2 NO
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating [V ^{dc}]	24 - 36 - 72 - 110 ¹
Customer Auxiliary Blocks	2 (1 NO + 1 NC)
Feedback Signal Scope	AUX B (a0, b0)
	AUX D (a1, b1)
Block Type	РВХ
Contact Material	Cu
Electric Diagram	SC27702
Layout Drawing	D55169

¹ To be specified in order phase.



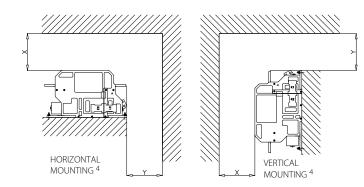
Description

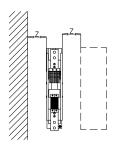
Disconnector switch, electric motor control with 1 auxiliary relay, 2 positions, bi-stable. Reference standard IEC 60077-2(2017), IEC 61992 and IEC 60947.

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 (cos ϕ =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 impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60″)	30		
	30 10000		
Rated Power Frequency Withstand Voltage (50Hz; 60")			
Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V]	10000		
Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V]	10000 7900		
Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V] Between each pole (if more than 1) [V]	10000 7900 10000		
Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V] Between each pole (if more than 1) [V] Between LV circuit to Earth [V]	10000 7900 10000 1500		
Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V] Between each pole (if more than 1) [V] Between LV circuit to Earth [V] Minimum clearance distance Between open contacts [mm]	10000 7900 10000 1500 32		

² Device cabled according IEC 60947 ³ In new and clean condition for power loss calculation only

⁴ Other mounting positions not allowed, reduced distances should be approved by Microelettrica.





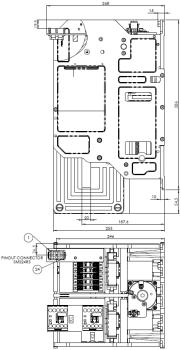
Minimum clearances [mm] from:					
Rated Op Voltage	perational	х	Y	Z	
4000V	Metal Parts	50	50	30	
	Plastic Parts	30	30	30	

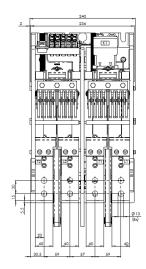
Mechanical Characteristics		
Mechanical Endurance (cycles)	2.5x10⁵	
Shock and Vibrations (IEC61373)	Cat. 1 - Class B	
Weight [kg]	18.5	
Control Circuit		
Control Voltage Range	0.7Uc ÷ 1.25Uc	
Power Consumption (Uc and T = 20°C) at Pick Up - when Holding [W]	35 - 0	
Mechanical Operation Time (U_c and T = 20°C) when Closing - Opening [ms]	3000 - 3000	
Mechanical Operation Time (in the worst condition) [ms]	6000 - 6000	
Electrical Connections	Low voltage SOURIAU SMS24R3	
Auxiliary Contacts		
Rated Operational Voltage [Vac / Vdc]	250	
Conventional Free Air Thermal Current [A] at 40° C	10	
Tips material Rated Current [A]	Silver Alloy (Optional: Golden Plated)	
Minimum Let-Through Current at 24/72/110Vdc [mA] ⁵	20(10)/15(7.5)/10(5)	
Electrical Connections	Low voltage SOURIAU SMS24R3	
Environmental Conditions		
Stock Temperature Range	-50°C ÷ +85°C	
Operational Temperature Range	Tx (-40°C ÷ +75°C) ⁶	
Max Altitude without Performance Derating [m]	2000	

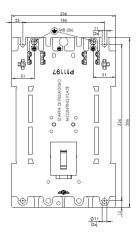
⁵ Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load.

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.



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