

## SWITCHES

## STANDARD FAMILY CODE LTHM15011XP00

Туре	LTHMD 1500
Number of Poles	1 CO
Mounting Position	Horizontal - Vertical <sup>1</sup>
Control Voltage Rating [V <sup>dc</sup> ]	24 - 36 - 72 - 110 <sup>1</sup>
Auxiliary Contact Blocks	2 NO +4 NC
Feedback Signal Scope	AUX C (a0, b0)
	AUX D (a1, b1)
Block Type	PBX
Contact Material	Cu
Electric Diagram	SC27700
Layout Drawing	D55269

<sup>1</sup> To be specified in order phase.



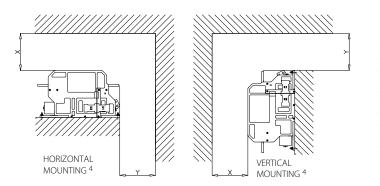
## Description

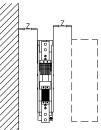
Change-over switch, electric motor control with 2 auxiliary relay, 2 positions, bi-stable. Reference standard IEC 60077-2(2017), IEC 61992 and IEC 60947

Electrical Characteristics	
Rated Operational Voltage [Vac / Vdc]	3600
Max Operational Voltage [Vac / Vdc]	4000
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>	1500
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>	1350
Main circuit resistance $[\mu\Omega]^3$	60
DC-Rated Operational Current ( $\tau$ =15ms) [A]	0
DC-Maximum Breaking Capacity ( τ=5ms) [A]	0.2
AC-Maximum Breaking Capacity (cos	0.5
Short Circuit Withstand Capacity for 5ms [kA]	100
Component Category / Operational Frequency Class	A4 / C3
Insulation Characteristics	
Rated Insulation Voltage [V]	4000
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3/OV3
Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV]	PD3/OV3 30
Rated impulse voltage [kV]	
Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60")	30
Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V]	30
Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V]	30 10000 7900
Rated impulse voltage [kV]   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]	30 10000 7900 10000
Rated impulse voltage [kV] 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]	30 10000 7900 10000 1500
Rated impulse voltage [kV] 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]	30 10000 7900 10000 1500 32

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

<sup>4</sup> Other mounting positions not allowed, reduced distances should be approved by Microelettrica.





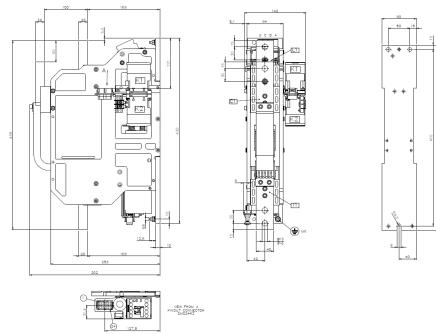
Minimum clearances [mm] from:					
Rated Op Voltage	perational	х	Y	Z	
4000V	Metal Parts	50	50	30	
	Plastic Parts	30	30	30	

Mechanical Characteristics			
Mechanical Endurance (cycles)	2.5x10⁵		
Shock and Vibrations (IEC61373)	Cat. 1 - Class B		
Weight [kg]	13		
Control Circuit			
Control Voltage Range	0.7Uc ÷ 1.25Uc		
Power Consumption (U <sub>c</sub> 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] <sup>5</sup>	20(10)/15(7.5)/10(5)		
Electrical Connections	Lowvoltage SOURIAU SMS24R3		
Environmental Conditions			
Stock Temperature Range	-50°C ÷ +85°C		
Operational Temperature Range	Tx (-40°C ÷ +75°C) <sup>6</sup>		
Max Altitude without Performance Derating [m]	2000		

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

For different working condiotions, please contact Microelettrica.

<sup>6</sup> In according to IEC50125-1



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

