

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)
Foodback Signal Scope	AUX B (a0, b0)
Feedback Signal Scope	AUX D (a1, b1)
Block Type	PBX
Contact Material	Cu
Electric Diagram	SC27702
Layout Drawing	D55169

 $^{^{\}scriptscriptstyle 1}\,\text{To}$ be specified in order phase.



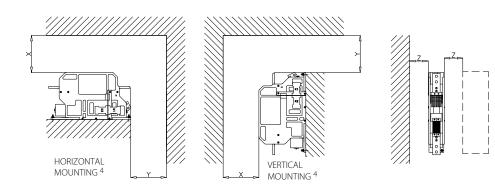
Description

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 [V_{ac} / V_{dc}]	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	
Compartive Tracking Index (CTI) (IEC 60112) [V]	600	

 $^{^{2}}$ 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.

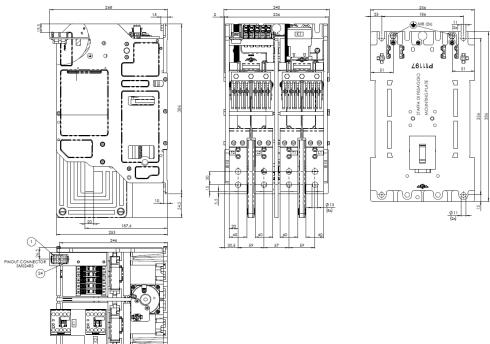


Minimum clearances [mm] from:				
Rated Operational Voltage		X	Υ	Z
4000V	Metal Parts	50	50	30
	Plastic Parts	30	30	30

Mechanical Characteristics		
Mechanical Endurance (cycles)	2.5x10 ⁵	
Shock and Vibrations (IEC61373)	Cat. 1 - Class B	
Weight [kg]	18.5	
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 (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 SOURIA		
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.

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

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