

# SWITCHES

## STANDARD FAMILY CODE LTHM15002XA00

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

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



**MICROELETTRICA**

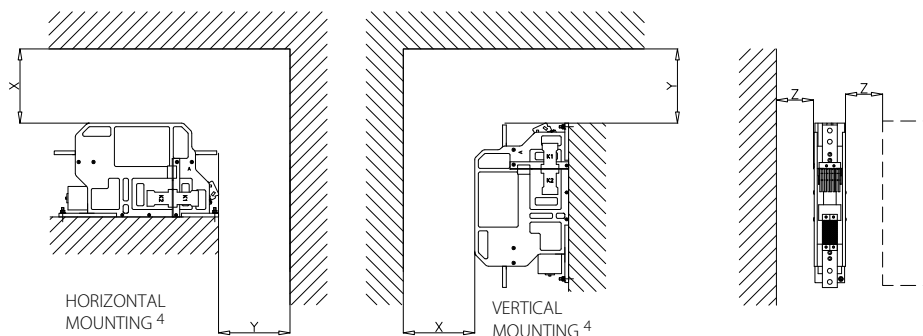
## Description

Disconnecter 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 [ $V_{ac}$ / $V_{dc}$ ]	3600
Max Operational Voltage [ $V_{ac}$ / $V_{dc}$ ]	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 [ $\mu\Omega$ ] <sup>3</sup>	60
DC-Rated Operational Current ( $\tau=15ms$ ) [A]	0
DC-Maximum Breaking Capacity ( $\tau=5ms$ ) [A]	0.2
AC-Maximum Breaking Capacity ( $\cos\phi=0,8$ ) [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 creepage distance	50
Comparative Tracking Index (CTI) (IEC 60112) [V]	600

<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 Operational Voltage		X	Y	Z
4000V	Metal Parts	50	50	30
	Plastic Parts	30	30	30

