

# SWITCHES

## STANDARD FAMILY CODE LTHM15011XP00

Type	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.



**MICROELETTRICA**

## 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

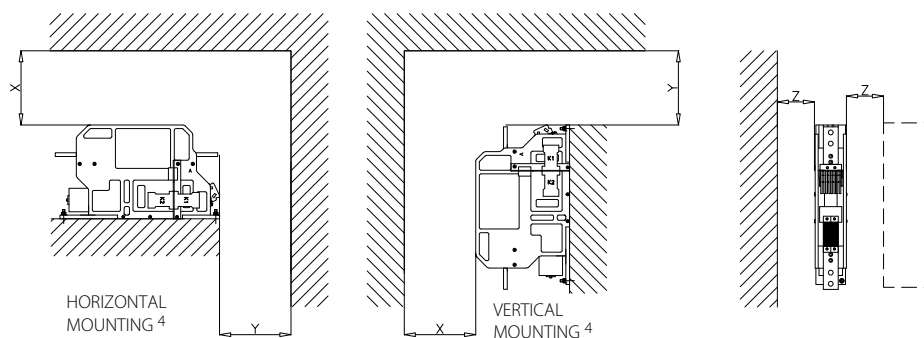
Rated Operational Voltage [ $V_{ac}$ / $V_{dc}$ ]	3600
Max Operational Voltage [ $V_{ac}$ / $V_{dc}$ ]	4000
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>	1500
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>	1350
Main circuit resistance [ $\mu\Omega$ ] <sup>3</sup>	60
DC-Rated 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]	100
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 clearance 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

