

SWITCHES

STANDARD FAMILY CODE LTHM15013XA00

Type	LTHMD 1500
Number of Poles	3 NO
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating [V ^{dc}]	24 - 36 - 72 - 110 ¹
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Feedback Signal Scope	AUX C (a0, b0)
	AUX D (a1, b1)
Block Type	PBX
Main Contacts tips Material	Cu
Electric Diagram	SC27695
Layout Drawing	D55098

¹ To be specified in order phase.



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Description

3 poles Disconnect 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

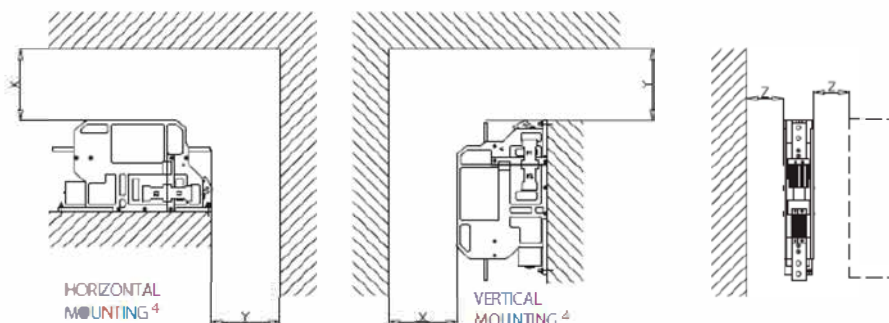
Rated Operational Voltage [V_{ac} / V_{dc}]	3600
Max Operational Voltage [V_{ac} / V_{dc}]	4000
Conventional Free Air Thermal Current [A] at 40°C ²	1500
Conventional Free Air Thermal Current [A] at 75°C ²	1350
Main circuit resistance [$\mu\Omega$] ³	60
DC-Rated Operational Current ($\tau=15ms$) [A]	0
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]	90
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

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:

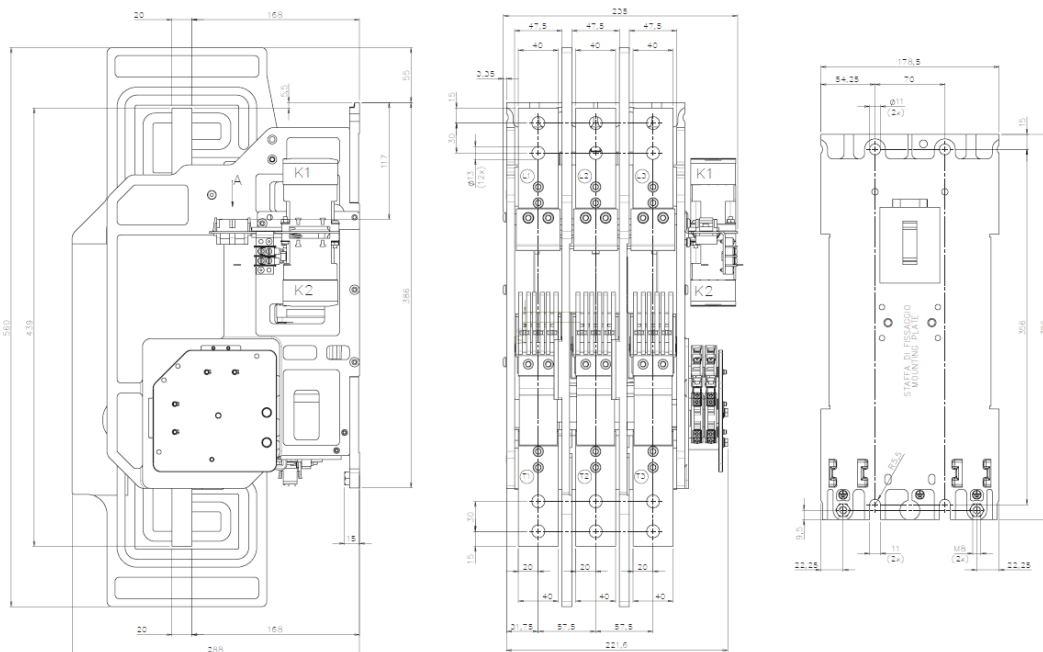
Rated Operational Voltage		X	Y	Z
4000V	Metal Parts	50	50	30
	Plastic Parts	30	30	30

Mechanical Characteristics	
Mechanical Endurance (cycles)	2.5x10 ⁵
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	21
Control Circuit	
Control Voltage Range	0.7U _c ÷ 1.25U _c
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 connector Souriau SMS24R3
Auxiliary Contacts	
Rated Operational Voltage [V _{ac} / V _{dc}]	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 24/72/110V _{dc} [mA] ⁵	20(10)/15(7.5)/10(5)
Electrical Connections	Low voltage connector 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 conditioins, 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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