

SWITCHES

STANDARD FAMILY CODE LTHM15001XA00

| | |
|---|------------------------------------|
| Type | LTHMU 1500 |
| Number of Poles | 1 NO |
| Mounting Position | Horizontal - Vertical ¹ |
| Control Voltage Rating [V ^{dc}] | 24 - 36 - 72 - 110 ¹ |
| Customer Auxiliary Blocks | 2 (1 NO + 1 NC) |
| Feedback Signal Scope | AUX A (a1, b1) |
| | AUX C (a0, b0) |
| Block Type | PBX |
| Contact Material | Cu |
| Electric Diagram | SC27691 |
| Layout Drawing | D55170 |

¹ To be specified in order phase.



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Description

Disconnecter 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

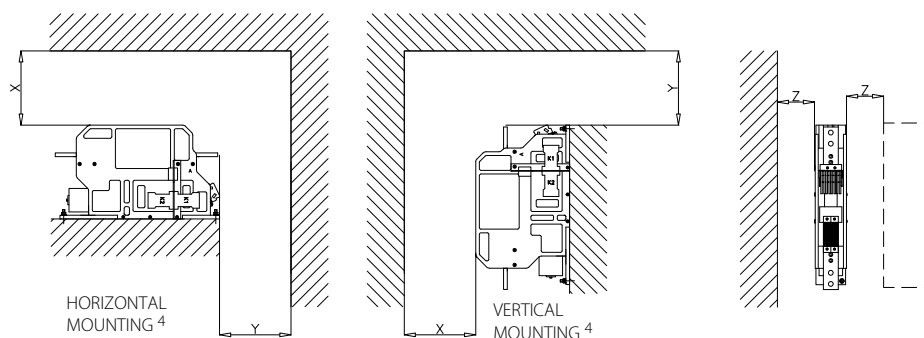
| | |
|--|---------|
| Rated Operational Voltage [V_{ac} / V_{dc}] | 3600 |
| Max Operational Voltage [V_{ac} / V_{dc}] | 4000 |
| Conventional Free Air Thermal Current [A] at 40°C ² | 1500 |
| Conventional Free Air Thermal Current [A] at 75°C ² | 1350 |
| Main circuit resistance [$\mu\Omega$] ³ | 60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

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:

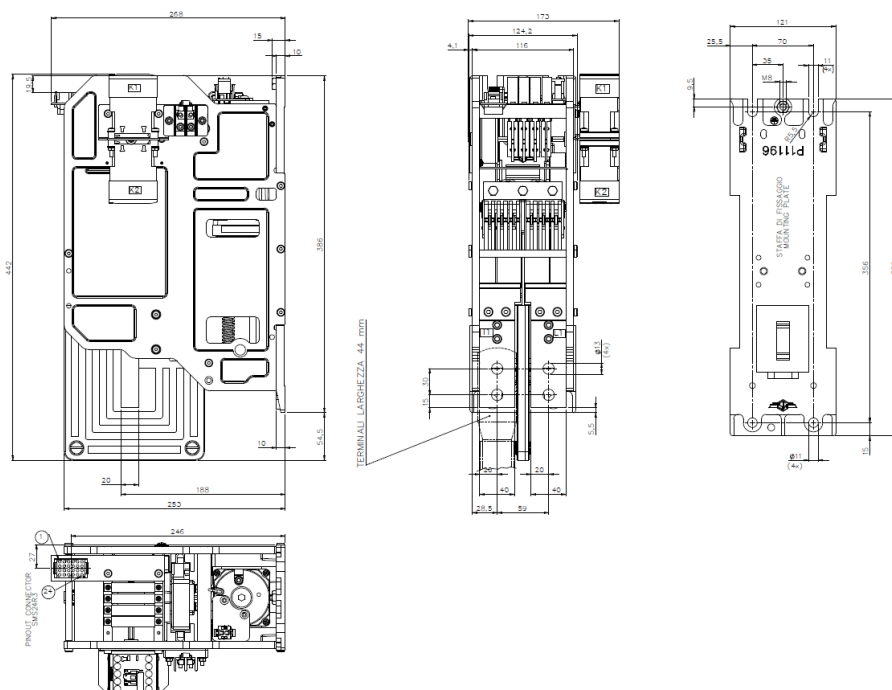
| Rated Operational Voltage | | X | Y | Z |
|---------------------------|---------------|----|----|----|
| 4000V | Metal Parts | 50 | 50 | 30 |
| | Plastic Parts | 30 | 30 | 30 |

| Mechanical Characteristics | |
|---|---|
| Mechanical Endurance (cycles) | 2.5x10 ⁵ |
| Shock and Vibrations (IEC61373) | Cat. 1 - Class B |
| Weight [kg] | 10.8 |
| 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 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 SOURIAU SMS24R3 |
| Environmental Conditions | |
| Stock Temperature Range | -50°C ÷ +85°C |
| Operational Temperature Range | T _x (-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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