

## SWITCHES

## STANDARD FAMILY CODE LTMP10003SPC0

| Туре                                      | LTMP 1000                          |
|---|------------------------------------|
| Number of Poles                           | 3CO                                |
| Mounting Position                         | Horizontal - Vertical <sup>1</sup> |
| Control Voltage Rating [V <sup>dc</sup> ] | 24                                 |
| Auxiliary Contact Blocks                  | 2 CO for each pole                 |
| Block Type                                | V3                                 |
| Contact Material                          | Cu                                 |
| Electric Diagram                          | SC27360                            |
| Layout Drawing                            | D52390                             |

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



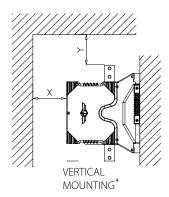
## Description

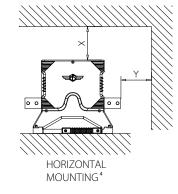
Modular multipole-Multiposition off-load disconnector, electric motor control with two auxiliary relais, 2 position bi-stable. Reference standard IEC 60077-2, IEC 61992 and IEC 60947.

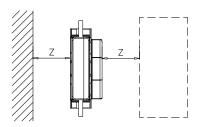
| Electrical Characteristics                                     |         |
|--|---------|
| Rated Operational Voltage $[V_{ac} / V_{dc}]$                  | 3600    |
| Max Operational Voltage [Vac / Vdc]                            | 4000    |
| Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup> | 1200    |
| Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup> | 1000    |
| Main circuit resistance $[\mu\Omega]^3$                        | 50      |
| DC-Rated Operational Current ( τ=15ms) [A]                     | 0       |
| DC-Maximum Breaking Capacity ( τ=5ms) [A]                      | 0.4     |
| AC-Maximum Breaking Capacity (cosφ=0,8) [A]                    | 120     |
| Short Circuit Withstand Capacity for 5ms [kA]                  | 180     |
| 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 circuit to Earth [V]                                | 10000   |
| Between HV to LV circuit [V]                                   | 10000   |
| Between open contacts [V]                                      | 7900    |
| Between each pole (if more than 1) [V]                         | 7900    |
| Between LV circuit to Earth [V]                                | 1500    |
| Minimum clearance distance Between open contacts [mm]          | 40      |
| Minimum clarence distance between power circuit to earth [mm]  | 40      |
| Minimum creapage 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.







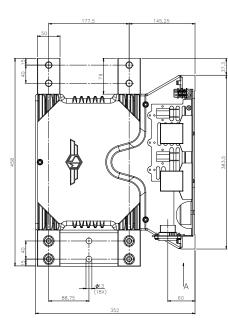
| Minimum clearances [mm] from: |               |    |    |    |  |
|-------------------------------|---------------|----|----|----|--|
| Rated Op<br>Voltage           | perational    | х  | Y  | Z  |  |
| 4000V                         | Metal Parts   | 50 | 50 | 30 |  |
|                               | Plastic Parts | 30 | 30 | 30 |  |

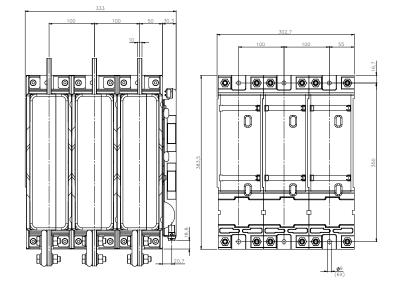
| Mechanical Characteristics  |   |
|---|---|
| Mechanical Endurance (cycles)   | 2.5x10⁵                                   |
| Shock and Vibrations (IEC61373)   | Cat. 1 - Class B                          |
| Weight [kg]   | 45  |
| Control Circuit   |   |
| Control Voltage Range   | 0.7Uc ÷ 1.25Uc                            |
| Power Consumption (U <sub>c</sub> and T = 20°C) at Pick Up - when Holding [W] | 25 - 0 (for each pole)                    |
| Mechanical Operation Time (Uc 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 AMP 178803-7        |
| 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<br>Plated) |
| Minimum Let-Through Current at 24/72/110Vdc [mA] <sup>5</sup>                 | 20(10)/15(7.5)/10(5)                      |
| Electrical Connections  | Low voltage Connector AMP 178803-7        |
| Environmental Conditions  |   |
| Stock Temperature Range   | -50°C ÷ +85°C                             |
| Operational Temperature Range   | Tx (-40°C ÷ +75°C) <sup>6</sup>           |
| Max Altitude without Performance Derating [m]                                 | 2500                                      |

<sup>5</sup> 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 According to IEC50125-1





The technical specifications reported are not binding and they should be agreed in the contract.



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