

# SWITCHES

## STANDARD FAMILY CODE LTMP20002XP00

Type	LTMP 2000
Number of Poles	2CO
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	SC27711
Layout Drawing	D55551

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



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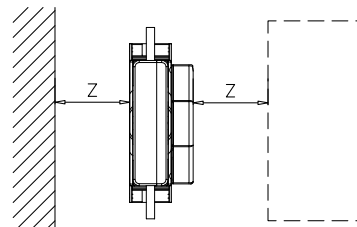
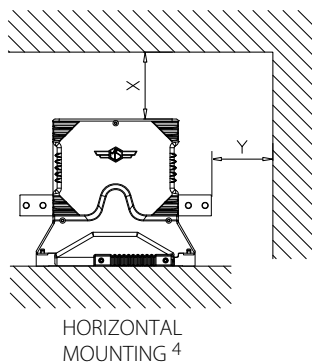
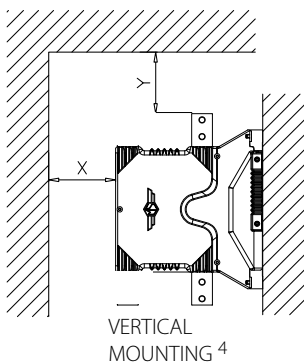
## Description

Modular multipole-Multiposition off-load disconnecter, electric motor control without auxiliary relay, 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 [ $V_{ac}$ / $V_{dc}$ ]	4000
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>	2200
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>	2000
Main circuit resistance [ $\mu\Omega$ ] <sup>3</sup>	50
DC-Rated Operational Current ( $\tau=15ms$ ) [A]	0
DC-Maximum Breaking Capacity ( $\tau=5ms$ ) [A]	0.4
AC-Maximum Breaking Capacity ( $\cos\phi=0,8$ ) [A]	1
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 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.



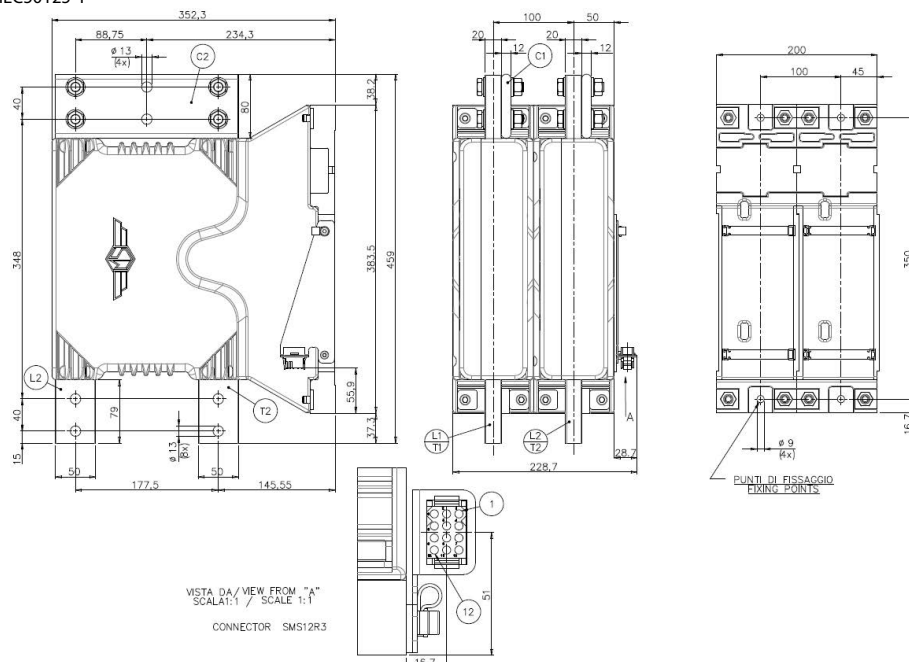
Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
4000V	Metal Parts	50	50	30
	Plastic Parts	30	30	30

Mechanical Characteristics	
Mechanical Endurance (cycles)	2.5x10 <sup>5</sup>
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	38
Control Circuit	
Control Voltage Range	0.7U <sub>c</sub> ÷ 1.25U <sub>c</sub>
Power Consumption (U <sub>c</sub> and T = 20°C) at Pick Up - when Holding [W]	25 - 0 (for each pole)
Mechanical Operation Time (U <sub>c</sub> 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 Soriau SMS12R3
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 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 Soriau SMS12R3
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 conditioins, please contact Microelettrica.

<sup>6</sup> 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](http://www.microelettrica.com)**

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