

SWITCHES

STANDARD FAMILY CODE LTMP20001*P00

| Type | LTMP 2000 |
|---|------------------------------------|
| Number of Poles | 1CO |
| Mounting Position | Horizontal - Vertical ¹ |
| Control Voltage Rating [V ^{dc}] | 24 |
| Auxiliary Contact Blocks | 2 CO |
| Block Type | V3 |
| Contact Material | Cu |
| Electric Diagram | SC27675 |
| Layout Drawing | D54976 |

¹ To be specified in order phase.



MICROELETTRICA

Description

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

Electrical Characteristics

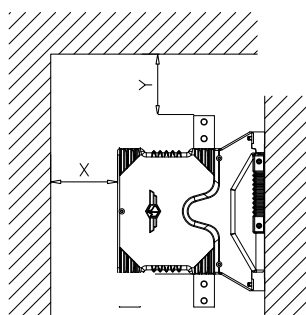
| | |
|--|---------|
| Rated Operational Voltage [V_{ac} / V_{dc}] | 3600 |
| Max Operational Voltage [V_{ac} / V_{dc}] | 4000 |
| Conventional Free Air Thermal Current [A] at 40°C ² | 2200 |
| Conventional Free Air Thermal Current [A] at 75°C ² | 2000 |
| Main circuit resistance [$\mu\Omega$] ³ | 50 |
| 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

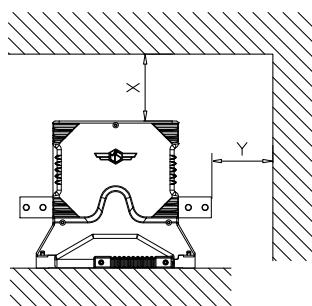
| | |
|---|---------|
| Rated Insulation Voltage [V] | 4000 |
| Pollution Degree - Overvoltage Category (EN 50124-1) | PD3/OV3 |
| Rated impulse voltage [kV] | 30 |
| Rated Power Frequency Withstand Voltage (50Hz; 60") | |
| Between HV circuit to Earth [V] | 10000 |
| Between HV to LV circuit [V] | 10000 |
| 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 |

² Device cabled according IEC 60947 ³ In new and clean condition for power loss calculation only

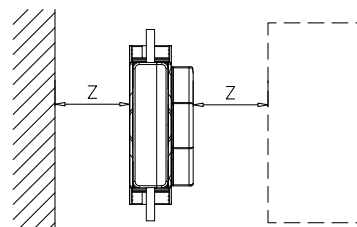
⁴ Other mounting positions not allowed, reduced distances should be approved by Microelettrica.



VERTICAL
MOUNTING⁴



HORIZONTAL
MOUNTING⁴



Minimum clearances [mm] from:

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

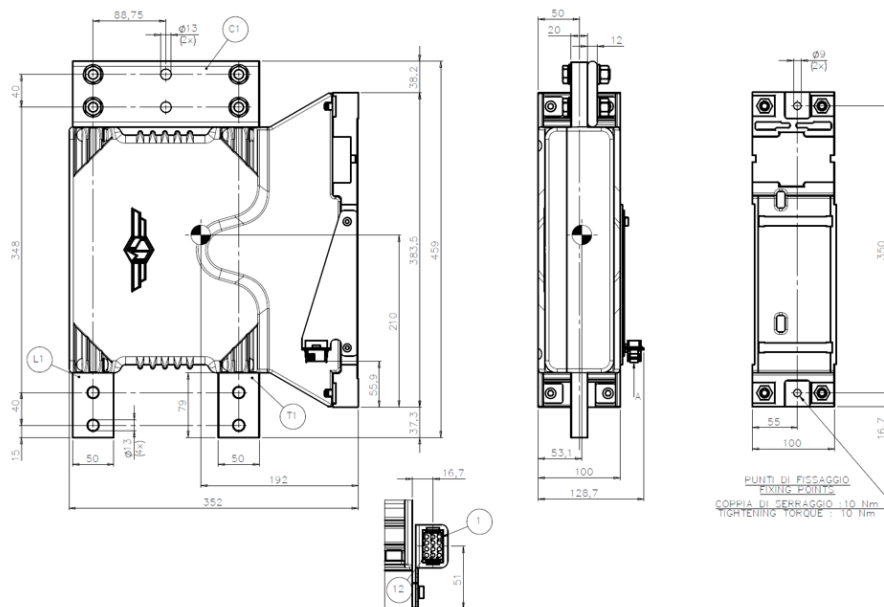
The technical specifications reported are not binding and they should be agreed in the contract.

| Mechanical Characteristics | |
|---|--|
| Mechanical Endurance (cycles) | 2.5x10 ⁵ |
| Shock and Vibrations (IEC61373) | Cat. 1 - Class B |
| Weight [kg] | 18 |
| 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] | 25 - 0 (for each pole) |
| 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 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] ⁵ | 20/15/10 |
| Electrical Connections | Low voltage Connector Souriau SMS12R3 |
| Environmental Conditions | |
| Stock Temperature Range | -50°C ÷ +85°C |
| Operational Temperature Range | Tx (-40°C ÷ +75°C) ⁶ |
| Max Altitude without Performance Derating [m] | 2500 |

⁵ Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load.

For different working condititions, please contact Microelettrica.

⁶ 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

Microelettrica Scientifica S.p.A.

20090 Buccinasco (MI) , Via Lucania 2, Italy

Tel.: +39 02 575731

E-mail: info@microelettrica.com

www.microelettrica.com



 **KNORR-BREMSE**

 **NEW YORK AIR BRAKE**

 **IFE**

 **MERAK**

 **MICROELETTRICA**

 **SELECTRON**

 **KIEPE ELECTRIC**

 **EVAC**

 **ZELSKO**

 **RAILSERVICES**