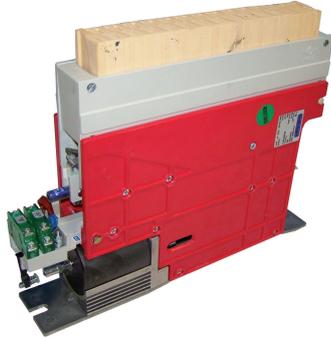


Switches

Standard Family Code LTHH04001* A00



| | |
|---|--------------------------------------|
| Type | LTHH 400 |
| Number of Poles | 1 NO |
| Mounting Position | Horizontal - Vertical ¹ |
| Control Voltage Rating [V ^{dc}] | 24 - 36 - 48 - 72 - 110 ¹ |
| Auxiliary Contact Blocks | 2 x (1 NO + 1 NC) |
| Block Type | PBX |
| Arc chute Material | Ceramic |
| Main Contacts tips Material | S6 |
| Arcing Contacts tips Material | S6 |
| Electric Diagram | - |
| Layout Drawing | D50930 |

¹ To be specified in order phase.

Description

Contact single interruption in air, electromagnetic control by full power coil. Single state functioning.

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

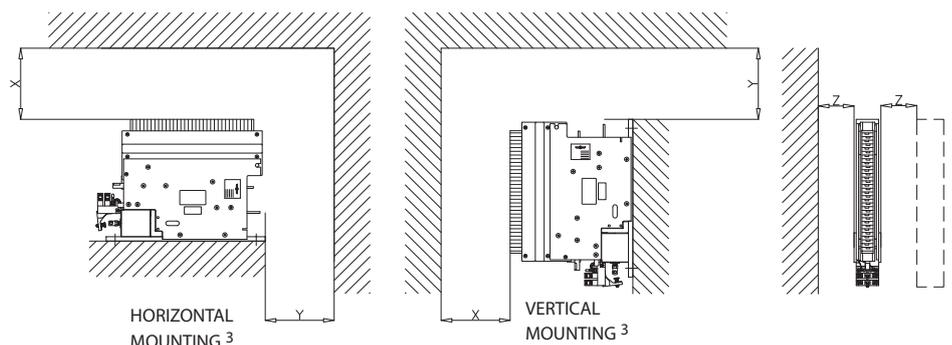
Electrical Characteristics

| | |
|--|-----------------------------------|
| Rated Operational Voltage [V _{ac} / V _{dc}] | 900 / 1800 / 3600 ¹ |
| Max Operational Voltage [V _{ac} / V _{dc}] | 4000 |
| Rated Insulation Voltage [V] | 4000 |
| Conventional Free Air Thermal Current [A] at 40°C ² | 480 |
| Conventional Free Air Thermal Current [A] at 75°C ² | 400 |
| DC-Rated Operational Current (τ=15ms) [A] | |
| 3600V | 270 |
| 1800V | 450 |
| 900V | 900 |
| DC-Maximum Breaking Capacity (τ=15ms) [A] | |
| 3600V | 350 |
| 1800V | 580 |
| 900V | 1160 |
| AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A] | |
| 3600V | 400 |
| 1800V | 800 |
| 900V | 1160 |
| Component Category / Operational Frequency Class | A2 / C3 |
| Short Circuit Withstand Capacity for 5ms [kA] | 6 |
| Critical Current Range [A] | NONE |
| Fault Making Capacity [kA] | 3.6 |
| Blow Out Circuit Type | Indirect coil with Arcing Contact |

² Device cabled according IEC 60947

| Minimum clearances [mm] from: | | | | |
|-------------------------------|---------------|-----|----|----|
| Rated Operational Voltage | X | Y | Z | |
| 1800V | Metal Parts | 120 | 50 | 50 |
| | Plastic Parts | 50 | 30 | 20 |

| Minimum clearances [mm] from: | | | | |
|-------------------------------|---------------|-----|----|----|
| Rated Operational Voltage | X | Y | Z | |
| 3600V | Metal Parts | 200 | 50 | 50 |
| | Plastic Parts | 100 | 50 | 30 |



³ OTHER MOUNTING POSITIONS NOT ALLOWED



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Switches

Standard Family Code
LTHH04001*A00

Mechanical Characteristics

| | |
|---------------------------------|-------------------|
| Mechanical Endurance (cycles) | 2x10 ⁶ |
| Shock and Vibrations (IEC61373) | Cat.1 - Class B |
| Weight [kg] | 8.5 |

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 - 35 |
| Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms] | 100 - 25 |
| Time Constant (L/R) at Pick Up - when Holding [ms] | 30 - 80 |
| Electrical Connections | Fast-On 6.35x0.8mm |

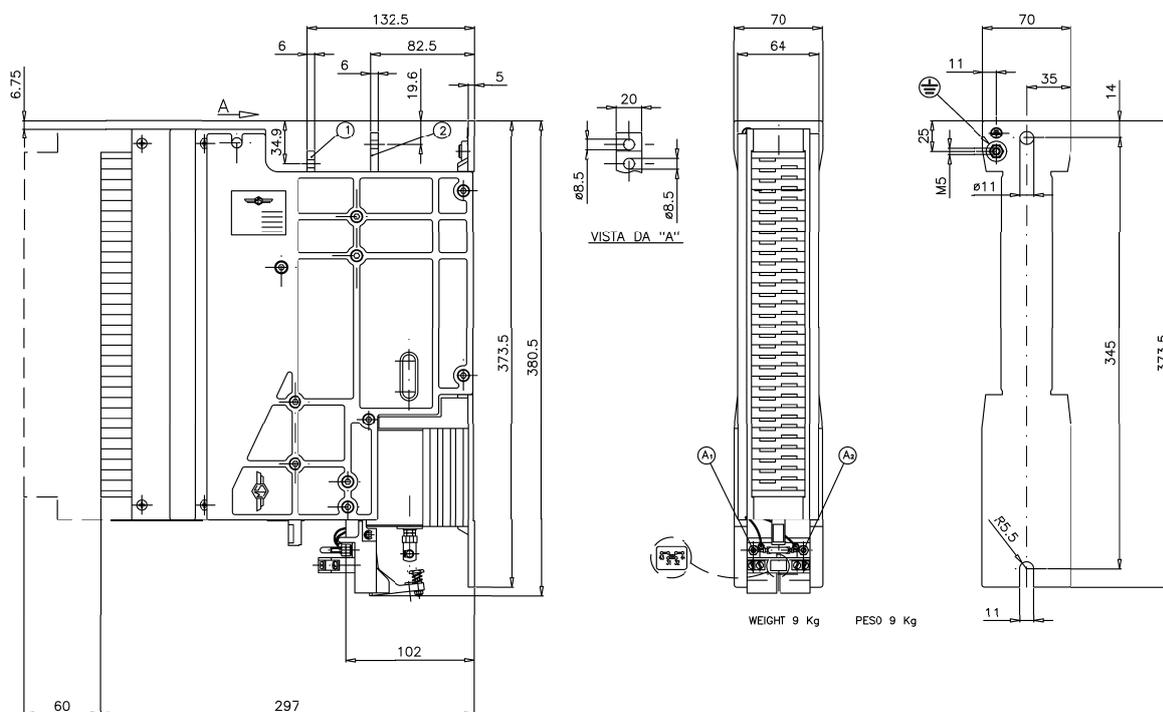
Auxiliary Contacts

| | |
|--|--------------------|
| Tips material | Silver Alloy |
| Rated Operational Voltage [V _{ac} / V _{dc}] | 250 |
| Rated Current [A] | 10 |
| Minimum Switching Current at 16V _{dc} [mA] ⁴ | 20 |
| Electrical Connections | Fast-On 6.35x0.8mm |

Environmental Conditions

| | |
|--|---------------|
| Stock Temperature Range | -50°C ÷ +85°C |
| Operational Temperature Range | -40°C ÷ +75°C |
| Pollution Degree - Overvoltage Category (EN 50124-1) | PD3 - OV3 |
| Max Altitude without Performance Derating [m] | 1500 |

⁴ In clean and dry conditions



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