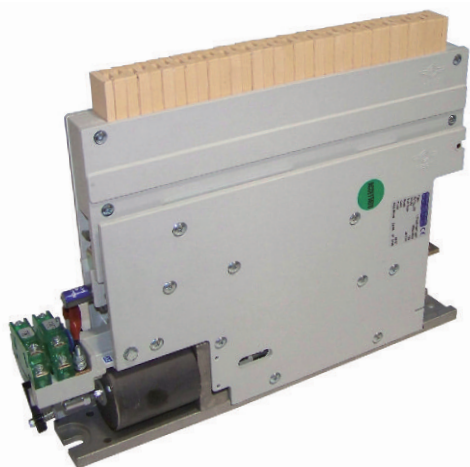


# Switches



## LTHH01002SA00

|                                           |                       |
|-------------------------------------------|-----------------------|
| Type                                      | LTHH 100              |
| Number of Poles                           | 2 NO                  |
| Mounting Position                         | Horizontal - Vertical |
| Control Voltage Rating [V <sub>dc</sub> ] | 10 ÷ 220              |
| Auxiliary Contact Blocks                  | Max 4 x (1 NO + 1 NC) |
| Block Type*                               | SJ - LJ               |
| Arc chute Material                        | Ceramic               |
| Contact Tips Material*                    | S6                    |

\* For details please refer to dedicated technical note

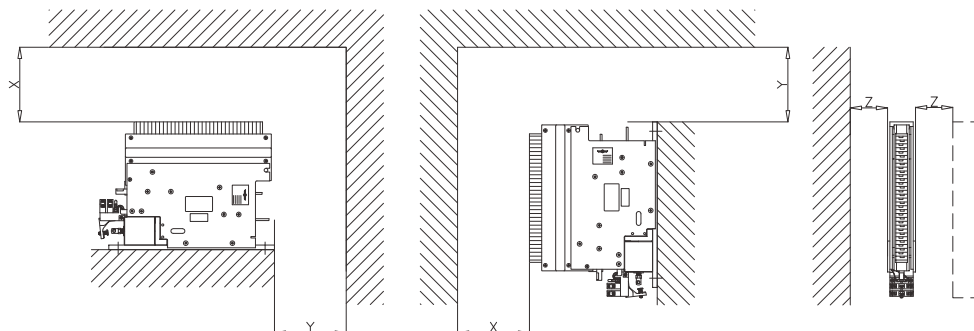
### Description

Contactor with single interruption in air, electromagnetic control by full power coil. Single state functioning.  
Reference standard IEC 60077.

### Electrical Characteristics

|                                                                |                  |                    |
|----------------------------------------------------------------|------------------|--------------------|
| Rated Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ] | 3000             |                    |
| Max Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ]   | 4000             |                    |
| Rated Insulation Voltage [V]                                   | 4000             |                    |
|                                                                | Series Connected | Parallel Connected |
| Conventional Free Air Thermal Current [A] at 75°C              | 100              | 200                |
| DC-Rated Operational Current (τ=15ms) [A]                      |                  |                    |
| 3000V                                                          | 250              | 135                |
| 1500V                                                          | 500              | 280                |
| DC-Maximum Breaking Capacity (τ=15ms) [A]                      |                  |                    |
| 3000V                                                          | 260              | 150                |
| 1500V                                                          | 520              | 300                |
| AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]              |                  |                    |
| 3000V                                                          | 300              | 180                |
| 1500V                                                          | 600              | 360                |
| Short Circuit Withstand Capacity for 5ms [kA]                  | 4                | 8                  |
| Critical Current Range [A]                                     | NONE             | NONE               |
| Fault Making Capacity [kA]                                     | 2.4              | 4.8                |
| Component Category / Operational Frequency Class               | A2 / C3          |                    |
| Blow Out Circuit Type                                          | Indirect         |                    |

Minimum clearances  
from metal parts [mm]  
X = 140; Y = 50 ; Z = 50



# Switches

LTHH01002SA00

## Mechanical Characteristics

|                                 |                   |
|---------------------------------|-------------------|
| Mechanical Endurance (cycles)   | 2x10 <sup>6</sup> |
| Shock and Vibrations (IEC61373) | Cat.1 - Class B   |
| Weight [kg]                     | 14                |

## Control Circuit

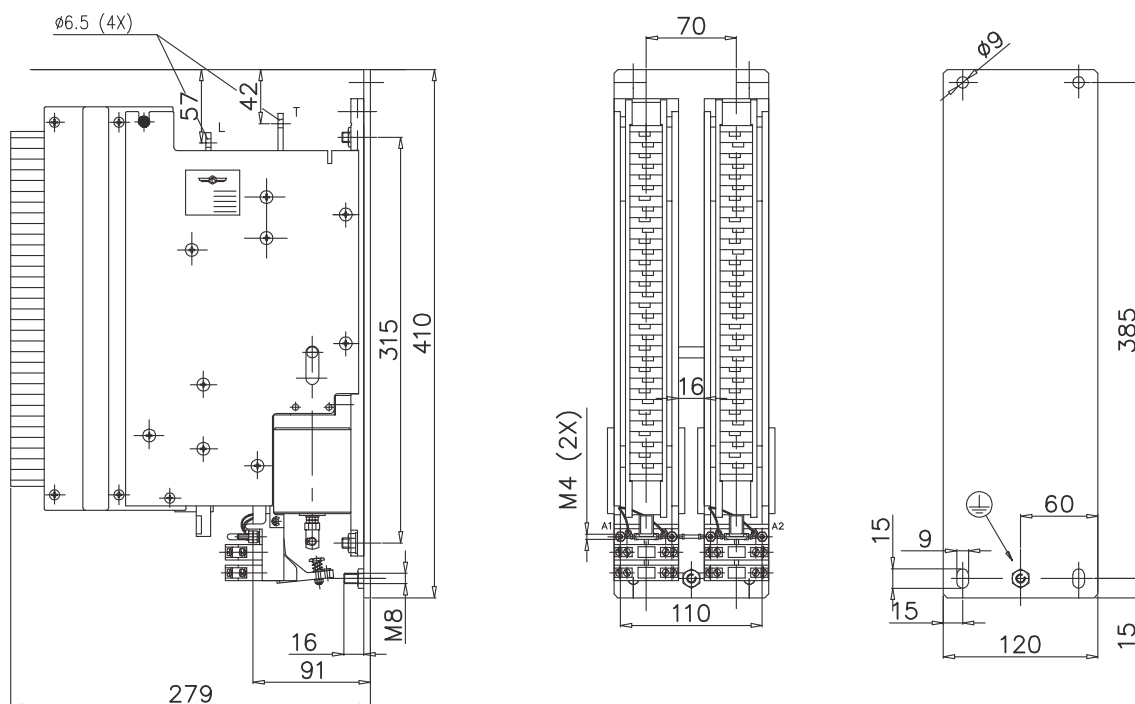
|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
| Control Voltage Range                                                               | 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]       | 24 - 24                                |
| Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms] | 90 - 24                                |
| Time Constant (L/R) at Pick Up - when Holding [ms]                                  | 25 - 75                                |
| Electrical Connections                                                              | Fast-On 6.35x0.8mm - Screw M4          |

## Auxiliary Contacts

|                                                                |                                 |
|----------------------------------------------------------------|---------------------------------|
| Tips material                                                  | Solid Silver (Gold plating opt) |
| Rated Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ] | 250                             |
| Rated Current [A]                                              | 10                              |
| Minimum Switching Current at 16V <sub>dc</sub> [mA]            | 20                              |
| Electrical Connections                                         | Fast-On 6.35x0.8mm - Screw M3   |

## 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          |



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