

# Switches



## LTHS04013\*A00

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Type                                      | LTHS 400                      |
| Number of Poles                           | 3 NO                          |
| Mounting Position                         | Horizontal - Vertical         |
| Control Voltage Rating [V <sub>dc</sub> ] | 12 ÷ 220                      |
| Auxiliary Contact Blocks                  | Max 4 x (1 NO + 1 NC or 2 NO) |
| Block Type*                               | SL                            |
| Arc chute Material                        | Polyester Resin - Ceramic     |
| Contact tips material*                    | S6                            |

\* For details please refer to dedicated technical note

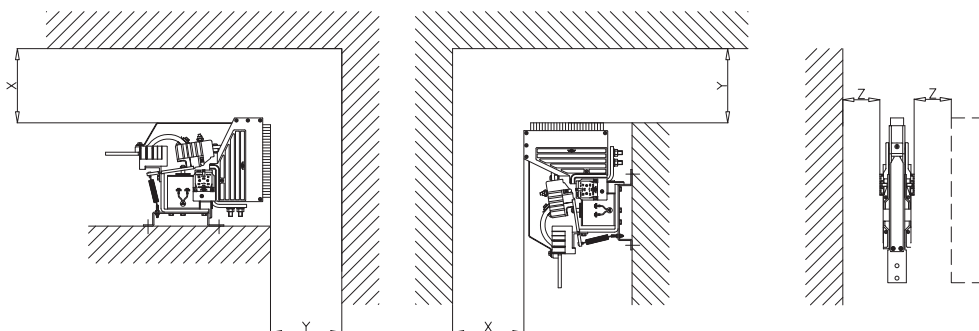
### Description

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> ] | 1500                            |                   |
| Max Operational Voltage [V <sub>ac</sub> /V <sub>dc</sub> ]   | 2000                            |                   |
| Rated Insulation Voltage [V]                                  | 2000                            |                   |
| Conventional Free Air Thermal Current [A] at 75°C             | 400                             |                   |
| DC-Rated Operational Current (τ=15ms) [A]                     | Polyester Resin arc chute       | Ceramic arc chute |
| 1500V                                                         | —                               | —                 |
| 750V                                                          | —                               | —                 |
| DC-Maximum Breaking Capacity (τ=15ms) [A]                     |                                 |                   |
| 1500V                                                         | —                               | —                 |
| 750V                                                          | —                               | —                 |
| AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [kVA]           |                                 |                   |
| 1500V                                                         | 800                             | 1800              |
| 750V                                                          | 1100                            | 2000              |
| Component Category / Operational Frequency Class              | A2 / C3                         |                   |
| Short Circuit Withstand Capacity for 5ms [kA]                 | 10                              |                   |
| Critical Current Range [A]                                    | < 50 (U > 1500V <sub>dc</sub> ) |                   |
| Fault Making Capacity [kA]                                    | 6                               |                   |
| Blow Out Circuit Type                                         | Indirect                        |                   |

Minimum clearances  
from metal parts [mm]  
X = 80; Y = 210 ; Z = 40



# Switches

LTHS04013\*A00

## Mechanical Characteristics

|                                 |                   |
|---------------------------------|-------------------|
| Mechanical Endurance (cycles)   | 2x10 <sup>6</sup> |
| Shock and Vibrations (IEC61373) | Cat.1 - Class B   |
| Weight [kg]                     | 28                |

## 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]       | 40-40                                  |
| Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms] | 240 - 50                               |
| Time Constant (L/R) at Pick Up - when Holding [ms]                                  | 130 - 170                              |
| 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]            | 10                              |
| Electrical Connections                                         | Fast-On 6.35x0.8mm - Screw M4   |

## 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          |

