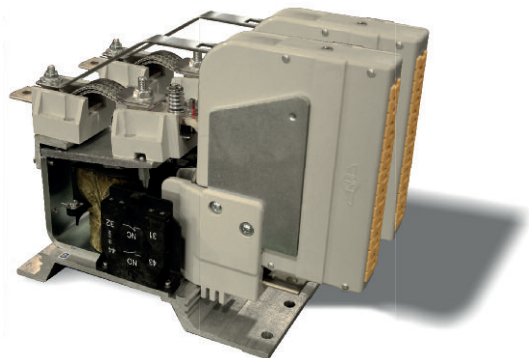


# Switches



## LTHS03802\*A00

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Type                                      | LTHS 380                      |
| Number of Poles                           | 2 NO                          |
| Mounting Position                         | Horizontal - Vertical         |
| Control Voltage Rating [V <sub>dc</sub> ] | 16 ÷ 220                      |
| Auxiliary Contact Blocks                  | Max 4 x (1 NO + 1 NC or 2 NO) |
| Block Type*                               | SL                            |
| Arc chute Material                        | Ceramic                       |
| Contact Tips Material*                    | S6                            |

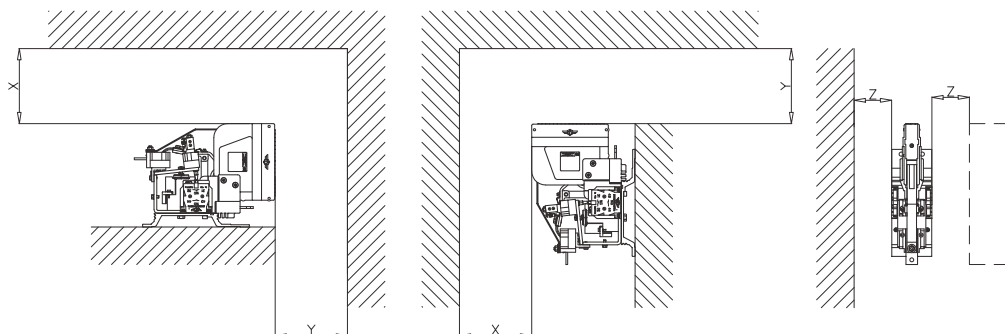
\* For details please refer to dedicated technical note

### 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> ] | 1500             |                    |
| Max Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ]   | 2000             |                    |
| Rated Insulation Voltage [V]                                   | 2000             |                    |
|                                                                | Series Connected | Parallel Connected |
| Conventional Free Air Thermal Current [A] at 75°C              | 380              | 720                |
| DC-Rated Operational Current (τ=15ms) [A]                      |                  |                    |
| 1500V                                                          | 350              | —                  |
| 750V                                                           | 750              | 360                |
| DC-Maximum Breaking Capacity (τ=15ms) [A]                      |                  |                    |
| 1500V                                                          | 660              | —                  |
| 750V                                                           | 1500             | 700                |
| AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]              |                  |                    |
| 1500V                                                          | 400              | —                  |
| 750V                                                           | 1000             | 480                |
| Short Circuit Withstand Capacity for 5ms [kA]                  | 8                | 10                 |
| Critical Current Range [A]                                     | NONE             | NONE               |
| Fault Making Capacity [kA]                                     | 4.8              | 6                  |
| Component Category / Operational Frequency Class               | A2 / C3          |                    |
| Blow Out Circuit Type                                          | Indirect         |                    |

Minimum clearances  
from metal parts [mm]  
X = 60; Y = 210 ; Z = 30



**LTHS03802\*A00**

## Mechanical Characteristics

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

## 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]       | 32 - 32                                |
| Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms] | 110 - 32                               |
| Time Constant (L/R) at Pick Up - when Holding [ms]                                  | 75 - 90                                |
| 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 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          |

