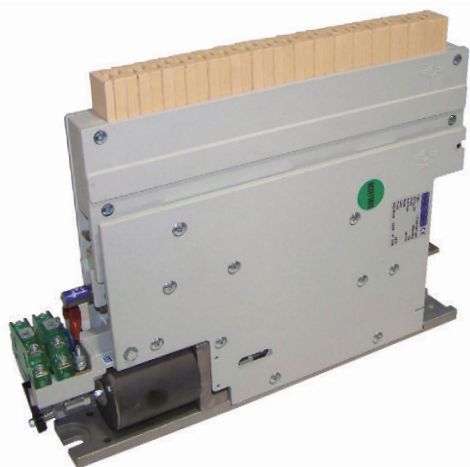


# Switches



## 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

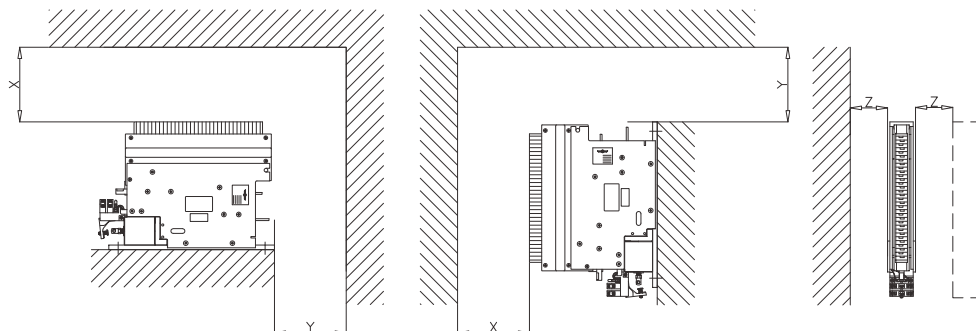
\* For details please refer to dedicated technical note

### 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

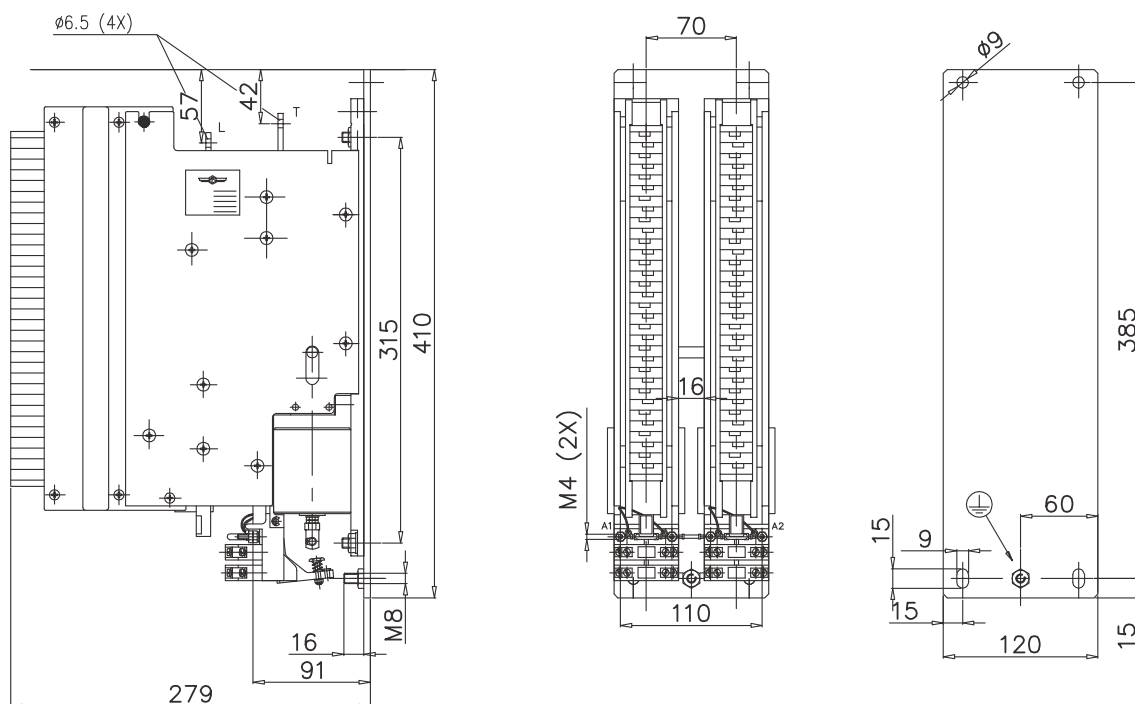
Control Voltage Range	0.7U <sub>c</sub> ÷ 1.25U <sub>c</sub>
Power Consumption (U <sub>c</sub> and T = 20°C) at Pick Up - when Holding [W]	24 - 24
Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms]	90 - 24
Time Constant (L/R) at Pick Up - when Holding [ms]	25 - 75
Electrical 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



Rev.02 10/2012

btsadv.com