

# Switches



## LTC003001\*A00

Type	LTCS 300 or LTCH 300
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical
Control Voltage Rating [Vdc]	12 ÷ 220
Auxiliary Contact Blocks	Max 4 (1 NO + 1 NC or 2 NO)
Block Type*	SK - SL - LP - RK
Arc chute Material	Polyester Resin - Ceramic
Contact tips material*	S6

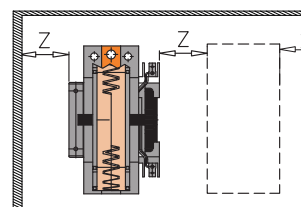
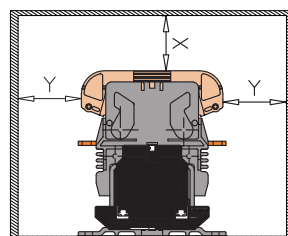
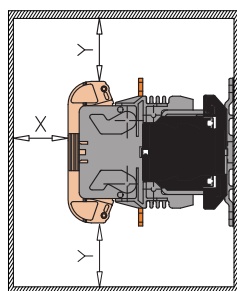
\* For details please refer to dedicated technical note

### Description

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

Electrical Characteristics		
Rated Operational Voltage [ $V_{ac} / V_{dc}$ ]	1500	
Max Operational Voltage [ $V_{ac} / V_{dc}$ ]	2000	
Rated Insulation Voltage [V]	2000	
Conventional Free Air Thermal Current [A] at 75°C	270	
DC-Rated Operational Current ( $\tau=15ms$ ) [A]	Polyester Resin arc chute	Ceramic arc chute
1500V	20	25
750V	80	120
DC-Maximum Breaking Capacity ( $\tau=15ms$ ) [A]		
1500V	30	40
750V	160	180
AC-Maximum Breaking Capacity ( $\cos\phi=0,8$ ; 50Hz) [A]		
1500V	40	50
750V	260	320
Component Category / Operational Frequency Class	A2 / C3	
Short Circuit Withstand Capacity for 5ms [kA]	4	
Critical Current Range [A]	DC Reverse current	
Fault Making Capacity [kA]	2.4	
Blow Out Circuit Type	Permanent Magnet	

Minimum clearances  
from metal parts [mm]  
X = 120; Y = 120; Z = 30



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## Mechanical Characteristics

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

## Control Circuit

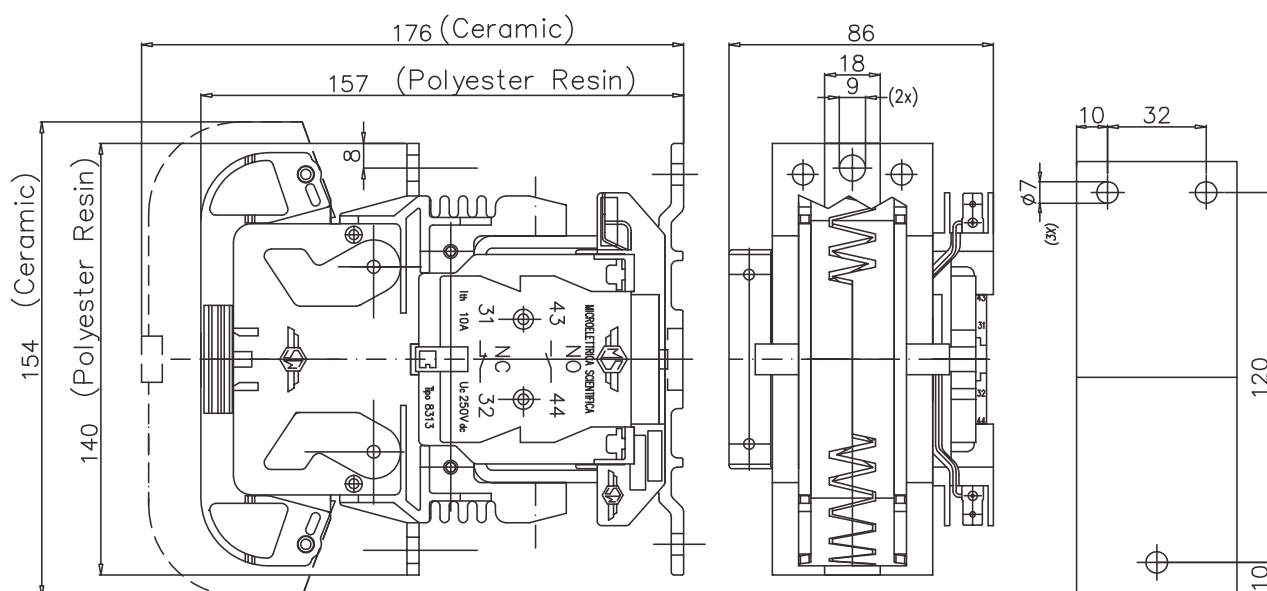
Control Voltage Range	0.7U <sub>c</sub> ÷ 1.25U <sub>c</sub>
Power Consumption (U <sub>c</sub> and T = 20°C) at Pick Up - when Holding [W]	32 - 32
Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms]	50 - 20
Time Constant (L/R) at Pick Up - when Holding [ms]	25 - 50
Electrical Connections	Fast-On 6.35x0.8mm

## 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 (RK= 0.5)
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



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