

# Switches

## Standard Family Code LTCH00601\*A02



### Description

Contacteur with double interruption in air, electromagnetic control by full power coil.

Single state functioning.

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

Type	LTCH 60
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical <sup>1</sup>
Control Voltage Rating U <sub>c</sub> [Vdc]	24 - 36 - 48 - 72 - 110 <sup>1</sup>
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Block Type	SL
Arc chute Material	Ceramic
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	-
Layout Drawing	D47736

<sup>1</sup> To be specified in order phase.

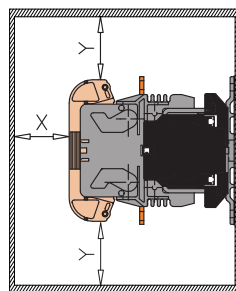
### Electrical Characteristics

Rated Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ]	900 / 1800 / 3600 <sup>1</sup>
Max Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ]	4000
Rated Insulation Voltage [V]	4000
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>	60
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>	50
DC-Rated Operational Current (τ=15ms) [A]	
3600V	16
1800V	40
900V	80
DC-Maximum Breaking Capacity (τ=5ms) [A]	
3600V	30
1800V	60
900V	120
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]	
3600V	50
1800V	100
900V	200
Component Category / Operational Frequency Class	A2 / C3
Short Circuit Withstand Capacity for 5ms [kA]	2
Critical Current Range [A]	DC Reverse current
Fault Making Capacity [kA]	1.2
Blow Out Circuit Type	Permanent Magnet

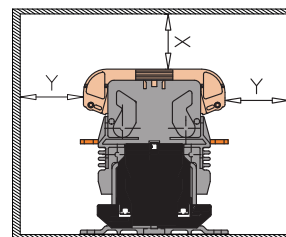
<sup>2</sup> Device cabled according IEC 60947

Minimum clearances [mm] from:				
Rated Operational Voltage	X	Y	Z	
1800v	Metal Parts	120	120	50
	Plastic Parts	50	50	20

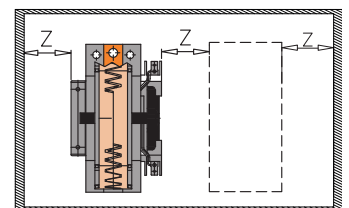
Minimum clearances [mm] from:				
Rated Operational Voltage	X	Y	Z	
3600v	Metal Parts	120	120	50
	Plastic Parts	50	50	20



VERTICAL MOUNTING <sup>3</sup>



HORIZONTAL MOUNTING <sup>3</sup>



<sup>3</sup> OTHER MOUNTING POSITIONS NOT ALLOWED



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## Mechanical Characteristics

Mechanical Endurance (cycles)	2x10 <sup>6</sup>
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	3.2

## 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]	33 - 33
Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms]	80 - 40
Time Constant (L/R) at Pick Up - when Holding [ms]	75 - 90
Electrical Connections	Fast-On 6.35x0.8mm

## Auxiliary Contacts

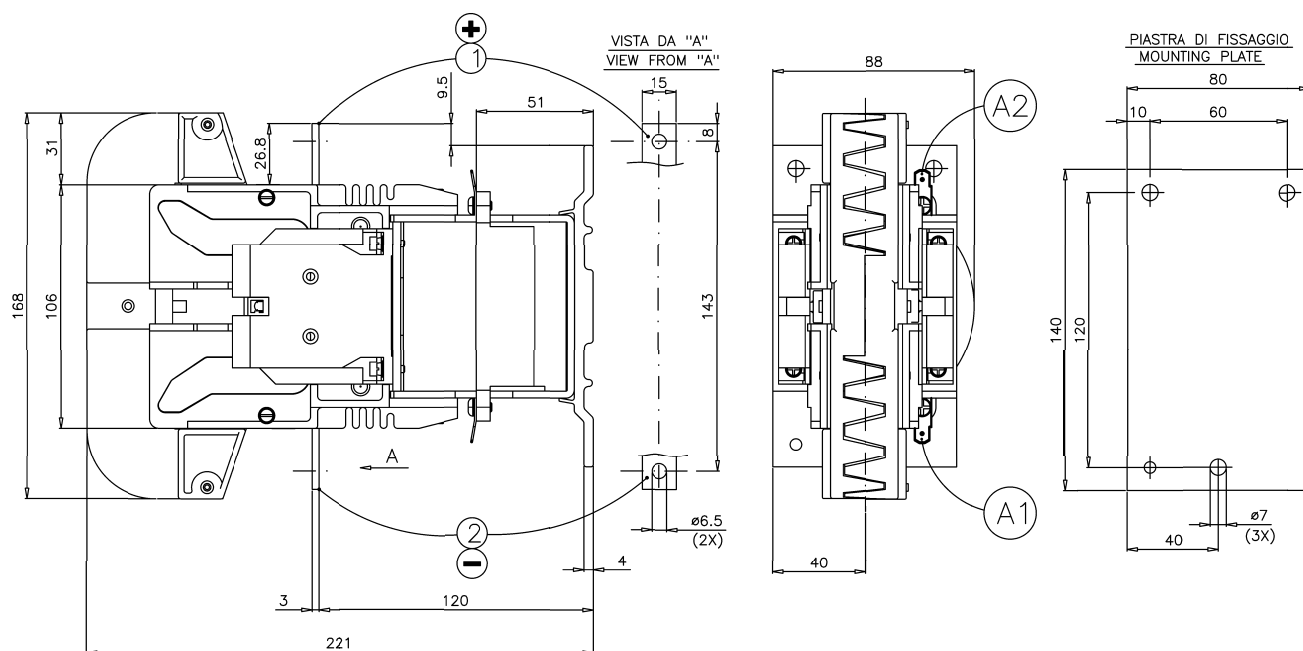
Tips material	Solid Silver
Rated Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ]	250
Rated Current [A]	10
Minimum Switching Current at 16V <sub>dc</sub> [mA] <sup>4</sup>	20
Electrical Connections	Fast-On 6.35x0.8mm

## Environmental Conditions

Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	Tx (-40°C ÷ +75°C) <sup>5</sup>
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3
Max Altitude without Performance Derating [m]	2000

<sup>4</sup>In clean and dry conditions

<sup>5</sup>In according to IEC50125-1



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