

# Switches



## LTCH00601\*A02

|                                           |                             |
|-------------------------------------------|-----------------------------|
| Type                                      | LTCH 60                     |
| Number of Poles                           | 1 NO                        |
| Mounting Position                         | Horizontal - Vertical       |
| Control Voltage Rating [V <sub>dc</sub> ] | 16 ÷ 220                    |
| Auxiliary Contact Blocks                  | Max 2 (1 NO + 1 NC or 2 NO) |
| Block Type                                | SL                          |
| Arc chute Material                        | Ceramic                     |
| Contact tips material                     | S6                          |

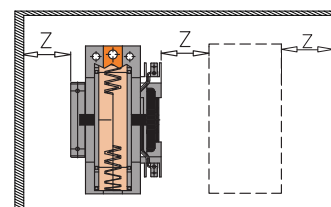
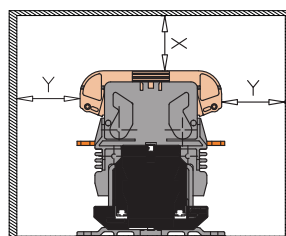
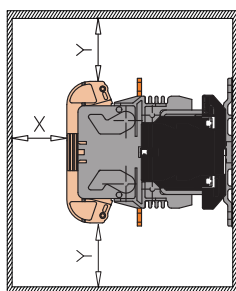
### Description

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 <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               |
| Conventional Free Air Thermal Current [A] at 75°C              | 50                 |
| DC-Rated Operational Current (τ=15ms) [A]                      |                    |
| 3000V                                                          | 20                 |
| 1500V                                                          | 45                 |
| DC-Maximum Breaking Capacity (τ=15ms) [A]                      |                    |
| 3000V                                                          | 35                 |
| 1500V                                                          | 70                 |
| AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]              |                    |
| 3000V                                                          | 50                 |
| 1500V                                                          | 100                |
| 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   |

Minimum clearances  
from metal parts [mm]  
X = 120; Y = 120 ; Z = 50



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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

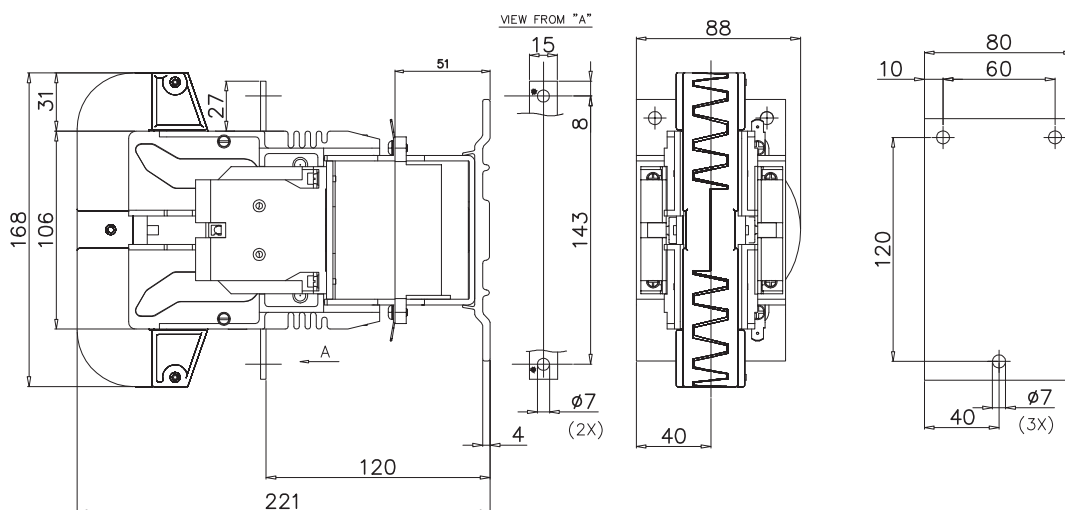
|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
| Control Voltage Range                                                               | 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 (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          |



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