



SWITCHES

STANDARD FAMILY CODE LTC003004*A00

| Family Type | LTC 300 |
|------------------------------------|----------------------------------------|
| Number / Type of Poles | 4 / NO |
| Mounting Position | Horizontal - Vertical ¹ |
| Control Voltage Rating Uc (DC) [V] | 24 - 36 - 48 - 72 - 110 ¹ |
| Auxiliary Contact Blocks | 2 x (1 NO + 1 NC) |
| Block Type | SL |
| Arc-chute Material | Polyester Resin - Ceramic ¹ |
| Main Contacts Tips Material | S6 |
| Arcing Contacts Tips Material | - |
| Electric Diagram | - |
| Polyester Resin Layout Drawing | D51928 |
| Ceramic Layout Drawing | - |

¹ To be specified in order phase.



MICROELETTRICA

Description

Contactor with single interruption in air, electromagnetic control by full power coil. Single state functioning. Reference Standards IEC 60077, IEC 61992 and IEC 60947.

| Insulation Characteristics | | | |
|-----------------------------------------------------------------|------|--------------------|--------------------|
| Rated Operational Voltage (AC / DC) | [V] | 1800 / 900 / 440 | |
| Max Operational Voltage (AC / DC) | [V] | 2000 | |
| Rated Insulation Voltage | [V] | 2000 | |
| Rated Impulse Voltage | [kV] | 12 | |
| Rated Power Frequency Withstand Voltage (50 Hz for 60 s) | | | |
| Between HV to LV Circuit + Earth | [V] | 6000 | |
| Between Open Contacts | [V] | 4700 | |
| Between Each Pole (if more than 1) | [V] | 6000 | |
| Between LV Circuit and Earth | [V] | 1500 | |
| Minimum Clearance Distance between Open Contacts | [mm] | 10 | |
| Minimum Clearance Distance between Power Circuit to Earth | [mm] | 14 | |
| Minimum Creepage Distance between Power Circuit to Earth | [mm] | 25 | |
| Comparative Tracking Index (CTI) (IEC 60112) | [V] | 600 | |
| Electrical Characteristics | | | |
| Arc-chute | | Polyester Resin | Ceramic |
| Conventional Free Air Thermal Current at 40 °C ² | [A] | 300 | 300 |
| Conventional Free Air Thermal Current at 75 °C ² | [A] | 270 | 270 |
| DC - Rated Operational Current (τ = 15 ms) | | | |
| 1800 V | [A] | - | - |
| 900 V | [A] | - | - |
| 440 V | [A] | - | - |
| DC - Maximum Breaking Capacity (τ = 5 ms) | | | |
| 1800 V | [A] | - | - |
| 900 V | [A] | - | - |
| 440 V | [A] | - | - |
| AC - Maximum Breaking Capacity (cosφ = 0,8; 50 Hz) ³ | | | |
| 1800 V | [A] | 80 | 100 |
| 900 V | [A] | 160 | 200 |
| 440 V | [A] | 320 | 400 |
| Component Category / Operational Frequency Class | | A2 / C3 | A2 / C3 |
| Rated Short Time Withstand Current | [kA] | 5 (for 100 ms) | 5 (for 100 ms) |
| Critical Current Range | [A] | DC Reverse current | DC Reverse current |
| Fault Making Capacity | [kA] | 2.4 | 2.4 |
| Blow Out Circuit Type | | Permanent Magnet | Permanent Magnet |

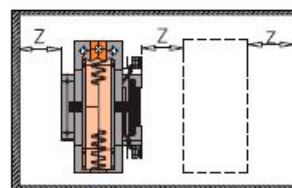
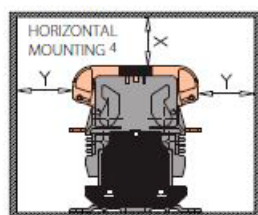
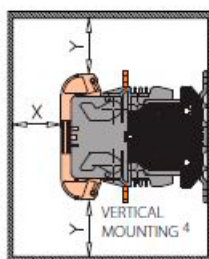
² Device cabled according IEC 60947 ³ Line current, voltage between lines

⁴ Other mounting positions not allowed, reduced distances should be approved by Microelettrica

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

| Minimum clearances [mm] from: | | | | |
|-------------------------------|---------------|-----|-----|----|
| Rated Operational Voltage | | X | Y | Z |
| 900 V | Metal Parts | 100 | 100 | 30 |
| | Plastic Parts | 50 | 50 | 20 |

| Minimum clearances [mm] from: | | | | |
|-------------------------------|---------------|-----|-----|----|
| Rated Operational Voltage | | X | Y | Z |
| 440 V | Metal Parts | 100 | 100 | 30 |
| | Plastic Parts | 50 | 50 | 20 |

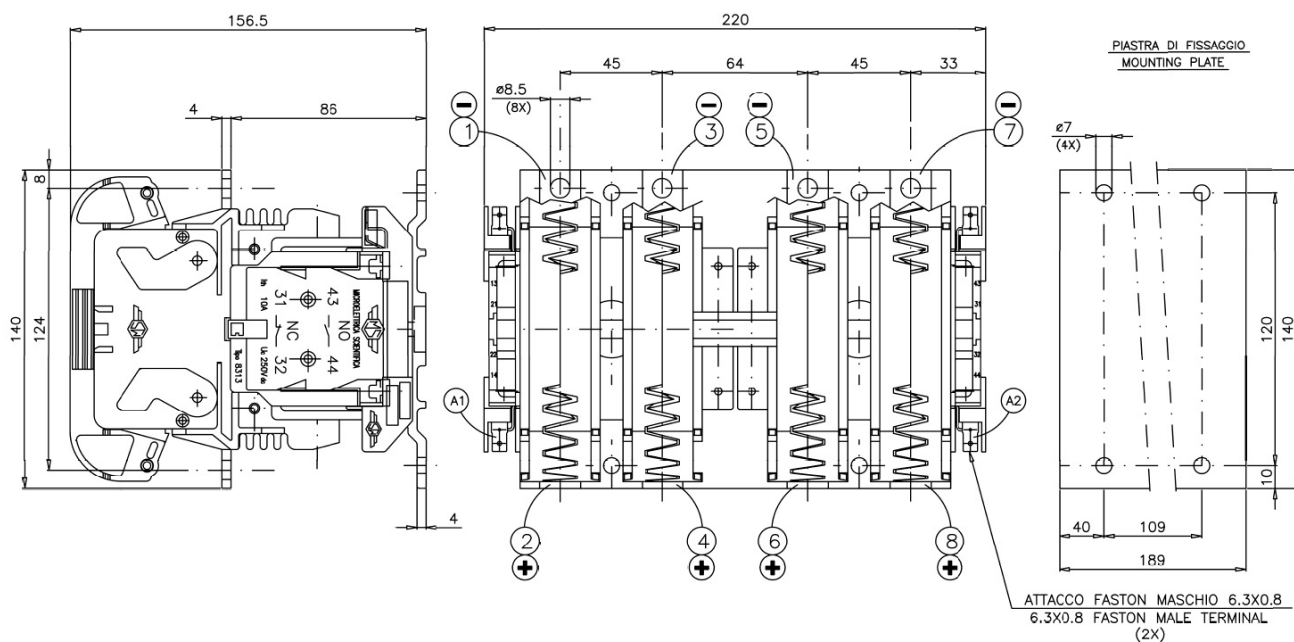


| Mechanical Characteristics | | |
|---------------------------------------------------------------------------------------|----------|-------------------------------------------|
| Mechanical Endurance | [cycles] | 2×10^6 |
| Shock and Vibrations (IEC 61373) | | Cat.1 - Class B |
| Weight | [kg] | 6.5 |
| Control Circuit | | |
| Control Voltage Range | [V] | $0.7U_c \div 1.25U_c$ |
| Power Consumption (U_c and $T = 20^\circ\text{C}$) at Pick Up - when Holding | [W] | 60 - 60 |
| Mechanical Operation Time (U_c and $T = 20^\circ\text{C}$) when Closing - Opening | [ms] | 55 - 25 |
| Time Constant (L/R) at Pick Up - when Holding | [ms] | 50 - 160 |
| Electrical Connections | | Fast-on 6.35 x 0.8 mm |
| Auxiliary Contact | | |
| Rated Operational Voltage (AC / DC) | [V] | 250 |
| Conventional Free Air Thermal Current at 40°C | [A] | 10 |
| Tips Material | | Silver Alloy (Optional: Golden Plated) |
| Minimum Let-through Current at 24 - 72 - 110 VDC ⁵ | [mA] | 20(10) - 15(7.5) - 10(5) ⁵ |
| Electrical Connections | | Fast-on 6.35 x 0.8 mm |
| Environmental Conditions | | |
| Stock Temperature Range | [°C] | $-50 \div +85$ |
| Operational Temperature Range | [°C] | $T_x (-40 \div +75)^6$ |
| Pollution Degree - Overvoltage Category (EN 50124-1) | | PD3 - OV3 |
| Max Altitude without Performance Derating | [m] | 2000 |

⁵ Reference Standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. The values with golden plated tips are indicated between brackets. For different working conditions, please contact Microelettrica

⁶ According to EN 50125-1

Polyester Resin Layout Drawing



The technical specifications reported are not binding and they should be agreed in the contract.

For further technical information on our products visit www.microelettrica.com

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