

# SWITCHES

## STANDARD FAMILY CODE LTKS0901MX000

Type	LTKS900
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical <sup>1</sup>
Control Voltage Rating [V <sup>dc</sup> ]	24-110 <sup>1</sup>
Auxiliary Contact Blocks	3 (1NO+1NC) + 1CO
Block Type	Integrated
Main Contacts tips Material	Cu
Layout Drawing	D54144
Electric Diagram	SC27631

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



**MICROELETTRICA**

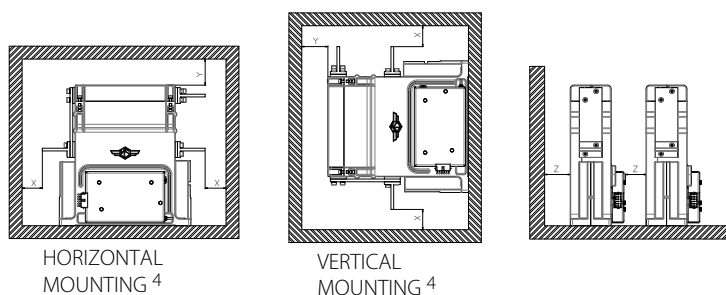
## Description

One pole normally opened disconnect switch, electric motor control by electronic device, 2 positions, bi-stable. Reference standard IEC 60077-2

Electrical Characteristics		
Rated Operational Voltage [ $V_{ac}$ / $V_{dc}$ ]		3600
Max Operational Voltage [ $V_{ac}$ / $V_{dc}$ ]		4200
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>		1050
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>		900
Main circuit resistance [ $\mu\Omega$ ] <sup>3</sup>		<80
DC-Rated Operational Current ( $\tau=15ms$ ) [A]		0
DC-Maximum Breaking Capacity ( $\tau=5ms$ ) [A]		0.2
AC-Maximum Breaking Capacity ( $\cos\phi=0,8$ ) [A]		0.5
Short Circuit Withstand Capacity for 100ms [kA]		50
Fault Making Capacity @ 100V ( $\tau=0ms$ ) [A]		50
Component Category / Operational Frequency Class		A4 / C3
Insulation Characteristics		
Rated Insulation Voltage @ OV4/PD3A [V]		3700
Rated Insulation Voltage @ OV3/PD3 [V]		4800
Rated impulse voltage [kV]		30
Rated Power Frequency Withstand Voltage (50Hz; 60")		
Between HV circuit and LV circuit+Earth [V]		11600
Between open contacts [V]		9200
Between each pole (if more than 1) [V]		11600
Between LV circuit and Earth [V]		1500
Minimum clearance distance between open contacts [mm]		80
Minimum clearance distance between HV circuit and LV circuit+earth [mm]		40
Minimum creepage distance [mm]		80
Comparative Tracking Index (CTI) (IEC 60112) [V]		600

<sup>2</sup> Device cabled according IEC 60947    <sup>3</sup> In new and clean condition for power loss calculation only

<sup>4</sup> Other mounting positions not allowed



Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
3600V	Metal Parts	50	50	30
	Plastic Parts	30	30	30

Mechanical Endurance (cycles)	2.5x10 <sup>5</sup>
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	11

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 operating - at Holding [W]	100 - 30 - 0
Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms]	3000 - 3000
Mechanical Operation Time (in the worst condition) [ms]	4000 - 4000
Electrical Connections	Low voltage connector SMS 18GE63

Tips material	Silver Alloy
Rated Operational voltage [ $V_{ac} / V_{dc}$ ]	250
Rated Current [A]	5

Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range up to 1000m	Tx (-40°C ÷ +75°C) <sup>5</sup>
Operational Temperature Range up to 2000m	T2 (-40°C ÷ +65°C) <sup>5</sup>
Humidity	10 ÷ 95% RH <sup>6</sup>

<sup>6</sup> According to IEC 62498-1

