



SWITCHES

STANDARD FAMILY CODE LTHS03201*A02

Family Type	LTHS 320
Number / Type of Poles	1 / NO
Mounting Position	Vertical
Control Voltage Rating U_c (DC) [V]	24 - 36 - 48 - 72 - 110 ¹
Auxiliary Contact Blocks	2 x (1 NO + 1 NC)
Block Type	SL
Arc-chute Material	Ceramic
Main Contacts Tips Material	S6
Arcing Contacts Tips Material	S6
Electric Diagram	-
Polyester Resin Layout Drawing	D52486



MICROELETTRICA

Description

Contactors 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
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]	-
Between LV Circuit and Earth	[V]	1500
Minimum Clearance Distance between Open Contacts	[mm]	13.5
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		
Conventional Free Air Thermal Current at 40 °C ²	[A]	350
Conventional Free Air Thermal Current at 75 °C ²	[A]	320
DC - Rated Operational Current ($\tau = 15$ ms)		
1800 V	[A]	150
900 V	[A]	300
DC - Maximum Breaking Capacity ($\tau = 5$ ms)		
1800 V	[A]	275
900 V	[A]	750
AC - Maximum Breaking Capacity ($\cos\phi = 0,8$; 50 Hz)		
1800 V	[A]	275
900 V	[A]	750
Component Category / Operational Frequency Class		A2 / C3
Rated Short Time Withstand Current	[kA]	5 (for 100 ms)
Critical Current Range	[A]	None at 900 Vdc < 5A at 1800 Vdc
Fault Making Capacity	[kA]	5
Blow Out Circuit Type		Indirect coil with arcing contact
Mechanical Characteristics		
Mechanical Endurance	[cycles]	2×10^6
Shock and Vibrations (IEC 61373)		Cat.1 - Class B
Weight	[kg]	4.8
Control Circuit		
Control Voltage Range	[V]	$0.7U_c \div 1.25U_c$
Power Consumption (U_c and $T = 20$ °C) at Pick Up - when Holding	[W]	25 – 25
Mechanical Operation Time (U_c and $T = 20$ °C) when Closing - Opening	[ms]	110 - 30
Time Constant (L/R) at Pick Up - when Holding	[ms]	60 - 80
Electrical Connections		Fast-on 6.35 x 0.8 mm

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 ⁴	[mA]	20(10) - 15(7.5) - 10(5) ⁴
Electrical Connections		Fast-on 6.35 x 0.8 mm

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

⁵ According to EN 50125-1

Rated Operational Voltage		X	Y	Z
1800 V	Metal Parts	120	50	50
	Plastic Parts	50	30	20

Rated Operational Voltage		X	Y	Z
900 V	Metal Parts	100	50	30
	Plastic Parts	50	30	20

