

Switches

Special Family Code LTHS03203SA91



Туре	LTHS 320
Number of Poles	3 NO
Mounting Position	Vertical
Control Voltage Rating [V ^{dc}]	24 - 36 - 48 - 72 - 110 ¹
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Block Type	SL
Arc chute Material	Ceramic
Main Contacts tips Material	S6
Arcing Contacts tips Material	S6
Electric Diagram	-
Layout Drawing	D45827 - I
To be specified in order phase	

To be specified in order phase.

Description

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

Electrical Characteristics	
Rated Operational Voltage [Vac]	440 / 900/1800 ¹
Max Operational Voltage [Vsc]	2000
Rated Insulation Voltage [V]	2000
Conventional Free Air Thermal Current [A] at 40°C ²	350
Conventional Free Air Thermal Current [A] at 75°C ²	300
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]	
1800V	600
900V	1200
440V	1800
Component Category / Operational Frequency Class	A2 / C3
Short Circuit Withstand Capacity for 5ms [kA]	8
Critical Current Range [A]	None
Fault Making Capacity [kA]	4.8
Blow Out Circuit Type	Indirect coil with arcing contact

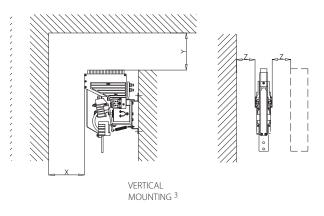
 $^{^{2}}$ Device cabled according IEC 60947

Minimum clearances [mm] from:				
Rated Operational Voltage X Y Z		Ζ		
900V	Metal Parts	100	50	30
	Plastic Parts	50	30	20
Minimum clearances [mm] from:				
Rated (Operational Voltage	X	Υ	7

Metal Parts

Plastic Parts

1800V



³Other mounting positions not allowed, reduced distances should be approved by MS.



Switches

Mechanical Characteristics	
Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	11.2

Control Circuit	
Control Voltage Range	0.7Uc ÷ 1.25Uc
Power Consumption (Uc and T = 20°C) at Pick Up - when Holding [W]	50 - 50
Mechanical Operation Time (U_c and $T = 20^{\circ}C$) when Closing - Opening [ms]	110 - 30
Time Constant (L/R) at Pick Up - when Holding [ms]	60 - 80
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts	
Rated Operational Voltage [Vac / Vac]	250
Conventional Free Air Thermal Current [A] at 40° C	10
Tips material Rated Current [A]	Silver Alloy (Optional: Golden Plated)
Minimum Let-Through Current at 24/72/110Vac [mA] ⁴	20(10)/15(7.5)/10(5)
Electrical Connections	Fast-On 6.35x0.8mm

Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	$Tx (-40^{\circ}C \div +75^{\circ}C)^{5}$
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3
Max Altitude without Performance Derating [m]	2000

⁴ Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. For different working condiotions, please contact MS.

⁵ In according to IEC50125-1

