

Switches



LTHS06502*A02

Type	LTHS 650
Number of Poles	2 NO
Mounting Position	Horizontal - Vertical
Control Voltage Rating [V _{dc}]	12 ÷ 220
Auxiliary Contact Blocks	Max 4 x (1 NO + 1 NC or 2 NO)
Block Type*	SL
Arc chute Material	Polyester Resin - Ceramic
Contact Tips Material*	S6

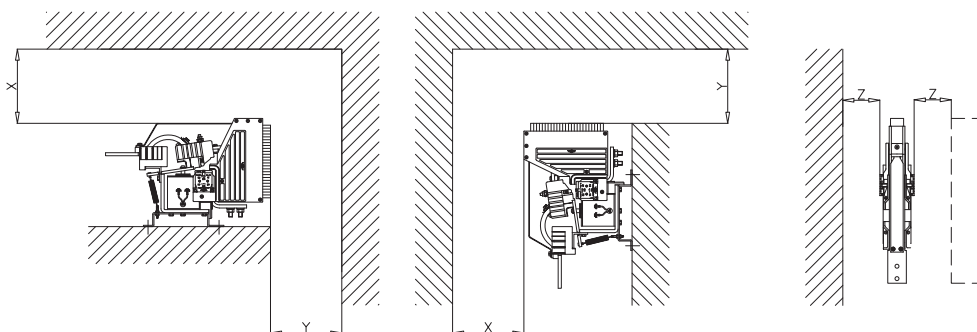
* For details please refer to dedicated technical note

Description

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

Electrical Characteristics				
Rated Operational Voltage [V _{ac} / V _{dc}]	1500			
Max Operational Voltage [V _{ac} / V _{dc}]	2000			
Rated Insulation Voltage [V]	2000			
	Series Connected		Parallel Connected	
Arc chute Type	Polyester Resin	Ceramic	Polyester Resin	Ceramic
Conventional Free Air Thermal Current [A] at 75°C	650	650	1300	1300
DC-Rated Operational Current (□=15ms) [A]				
1500V	1200	1800	600	900
750V	1600	3600	1300	1800
DC-Maximum Breaking Capacity (□=15ms) [kW]				
1500V	1500	2100	750	1050
750V	3000	4200	1500	2100
AC-Maximum Breaking Capacity (cos□=0,8; 50Hz) [kW]				
1500V	1650	2300	830	1150
750V	3300	4600	1650	2300
Short Circuit Withstand Capacity for 5ms [kA]	12	12	20	20
Critical Current Range [A]	< 25 (U > 1500V _{dc})	< 25 (U > 1500V _{dc})	< 50 (U > 1500V _{dc})	< 50 (U > 1500V _{dc})
Fault Making Capacity [kA]	7.2	7.2	12	12
Component Category / Operational Frequency Class	A2 / C3			
Blow Out Circuit Type	Indirect			

Minimum Clearances
from metal parts [mm]
X = 80; Y = 300; Z = 40



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Mechanical Characteristics

Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	25.5

Control Circuit

Control Voltage Range	0.7U _c ÷ 1.25U _c
Power Consumption (U _c and T = 20°C) at Pick Up - when Holding [W]	60 - 60
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	230 - 45
Time Constant (L/R) at Pick Up - when Holding [ms]	190 - 215
Electrical Connections	Fast-On 6.35x0.8mm - Screw M4

Auxiliary Contacts

Tips material	Solid Silver (Gold plating opt)
Rated Operational Voltage [V _{ac} / V _{ac}]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{ac} [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

