

Switches

Standard Family Code LTHS17002SA00



Description

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

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

Type	LTHS 1500
Number of Poles	2 NO
Connection between poles	Single, series or parallel ¹
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating U _c [Vdc]	24 - 36 - 48 - 72 - 110
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	-
Electric Diagram	-
Layout Drawing	D49078

¹ To be specified in order phase.

Electrical Characteristics

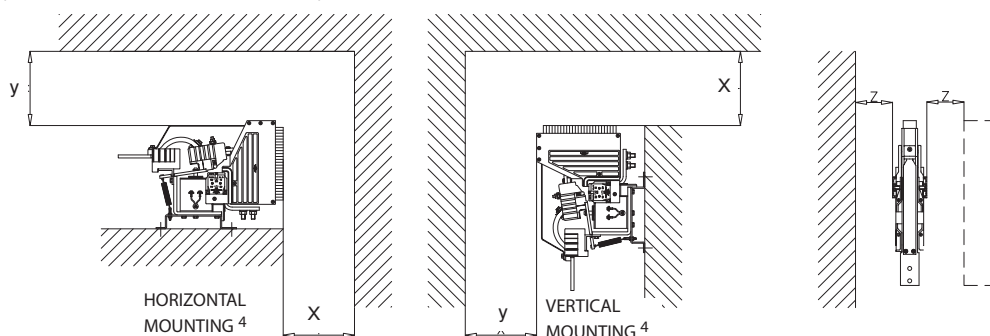
Rated Operational Voltage [V _{ac} / V _{dc}]	900 / 1800 ¹		
Max Operational Voltage [V _{ac} / V _{dc}]	2000		
Rated Insulation Voltage [V]	2000		
	Single Pole	Series Connected ³	Parallel Connected ³
Conventional Free Air Thermal Current [A] at 40°C ²	1700	1700	3400
Conventional Free Air Thermal Current [A] at 75°C ²	1600	1600	3200
DC-Rated Operational Current (τ=15ms) [A]			
1800V	600	1200	600
900V	1000	2000	1000
DC-Maximum Breaking Capacity (τ=5ms) [A]			
1800V	850	1700	850
900V	1700	3400	1700
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]			
1800V	1650	2900	1650
900V	3300	5800	3300
Short Circuit Withstand Capacity for 5ms [kA]	16	16	24
Critical Current Range [A]	<50 at 1500V _{dc}	<30 at 1500V _{dc}	<50 at 1500V _{dc}
Fault Making Capacity [kA]	6	6	9
Component Category / Operational Frequency Class	A2 / C3		
Blow Out Circuit Type	Indirect coil with Arcing Contacts		

² Device cabled according IEC 60947

³ Series or parallel bar connections are available under request

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

Minimum clearances [mm] from:				
Rated Operational Voltage	X	Y	Z	
1800V	Metal Parts	120	50	40
	Plastic Parts	50	30	20



⁴ OTHER MOUNTING POSITIONS NOT ALLOWED



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Mechanical Characteristics

Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	40

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 - 30
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	300 - 60
Time Constant (L/R) at Pick Up - when Holding [ms]	230 - 190
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts

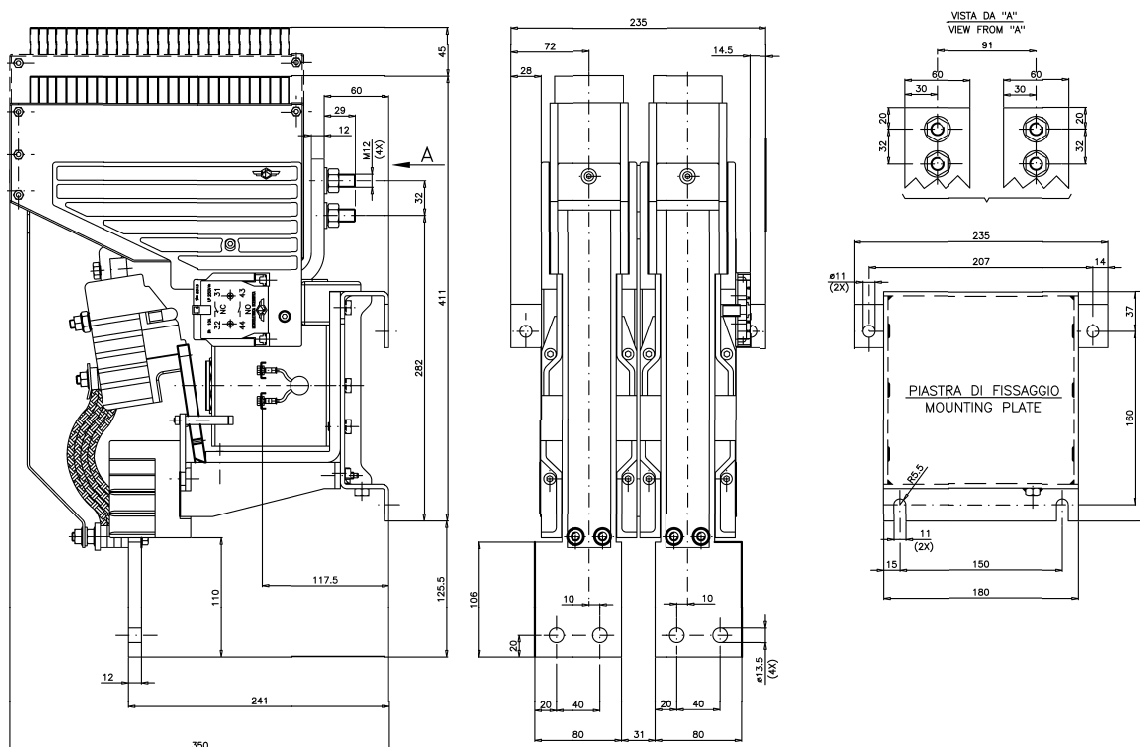
Tips material	Solid Silver
Rated Operational Voltage [V _{ac} / V _{dc}]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{dc} [mA] ⁵	20
Electrical Connections	Fast-On 6.35x0.8mm

Environmental Conditions

Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	Tx (-40°C ÷ +75°C) ⁶
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 / OV3
Max Altitude without Performance Derating [m]	2000

⁵ In clean and dry conditions

⁶ In according to IEC50125-1



KNORR-BREMSE



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