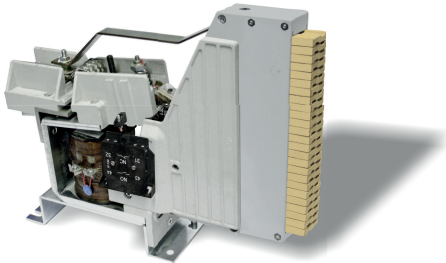


Switches

Standard Family Code LTHS06501*A02



Description

Contactors 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 650
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating U _c [Vdc]	24 - 36 - 48 - 72 - 110 ¹
Auxiliary Contact Blocks	2 x (1 NO + 1 NC)
Block Type	SL
Arc chute Material	Polyester Resin - Ceramic ¹
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	-
Layout Drawing	D48537

¹ To be specified in order phase.

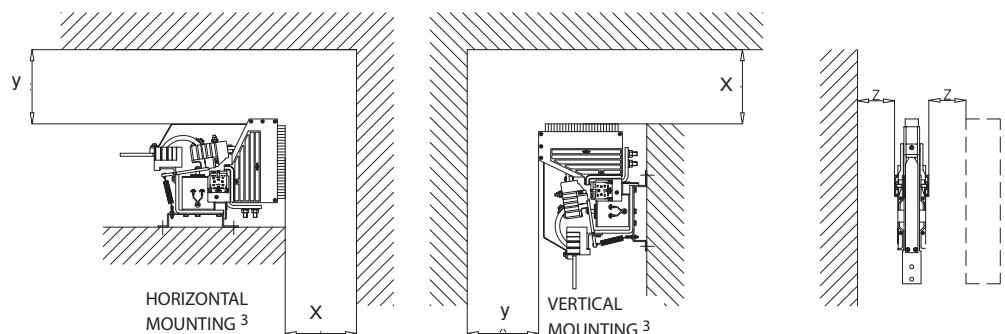
Electrical Characteristics

Rated Operational Voltage [V _{ac} /V _{dc}]	900 / 1800 ¹	
Max Operational Voltage [V _{ac} /V _{dc}]	2000	
Rated Insulation Voltage [V]	2000	
Conventional Free Air Thermal Current [A] at 40°C ²	700	
Conventional Free Air Thermal Current [A] at 75°C ²	650	
DC-Rated Operational Current (τ=15ms) [A]	Polyester Resin arc chute	Ceramic arc chute
1800V	500	750
900V	1080	1540
DC-Maximum Breaking Capacity (τ=5ms) [A]		
1800V	625	800
900V	1250	1750
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]		
1800V	830	1150
900V	1650	2300
Component Category / Operational Frequency Class	A2 / C3	
Short Circuit Withstand Capacity for 5ms [kA]	12	
Critical Current Range [A]	< 50 (U > 1500V _{dc})	
Fault Making Capacity [kA]	7.2	
Blow Out Circuit Type	Indirect coil	

² Device cabled according IEC 60947

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



³ OTHER MOUNTING POSITIONS NOT ALLOWED



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Switches

Standard Family Code
LTHS06501*A02

Mechanical Characteristics

Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	14

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]	50-50
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	210 - 40
Time Constant (L/R) at Pick Up - when Holding [ms]	170 - 190
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts

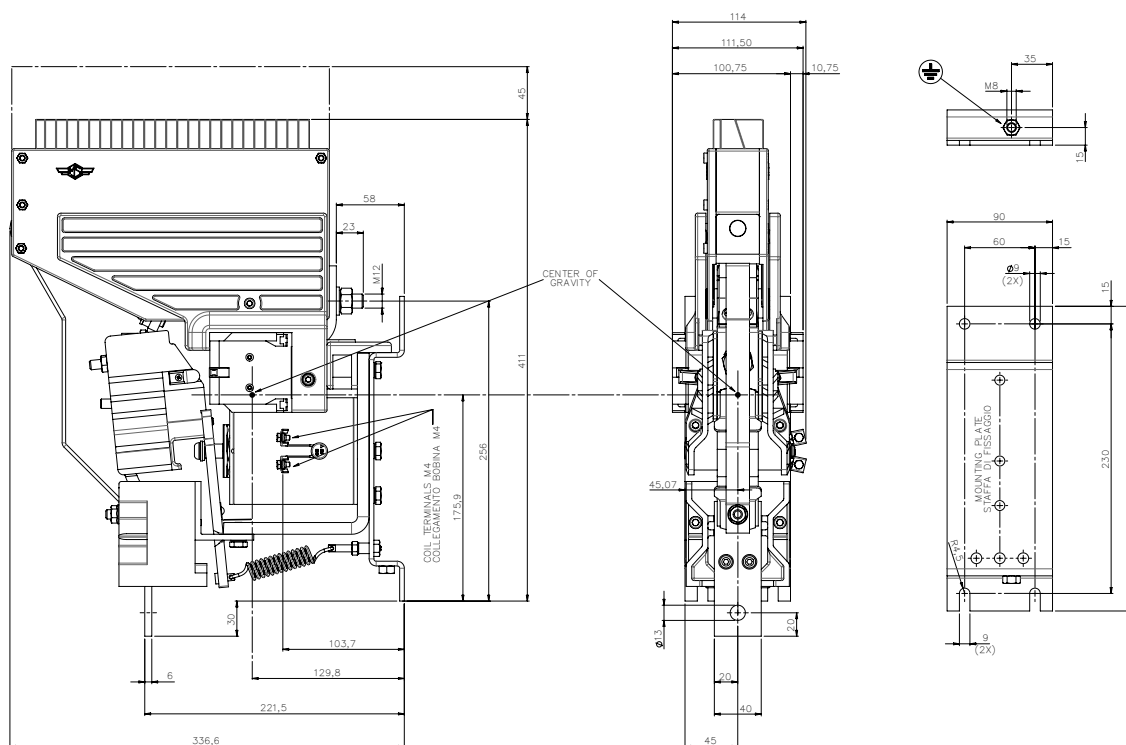
Tips material	Solid Silver
Rated Operational Voltage [V _{ac} / V _{dc}]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{dc} [mA] ⁴	20
Electrical Connections	Fast-On 6.35x0.8mm

Environmental Conditions

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

⁴ In clean and dry conditions

⁵ In according to IEC50125-1



KNORR-BREMSE



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