

Switches

Standard Family Code LTHH00401*A05



Description

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

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

Type	LTHH 40
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 (1 NO + 1 NC)
Block Type	SJ
Arc chute Material	Ceramic
Main Contacts tips Material	S6
Arcing Contacts tips Material	S6
Electric Diagram	-
Layout Drawing	D46682

¹ To be specified in order phase.

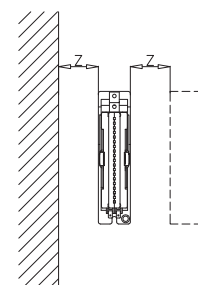
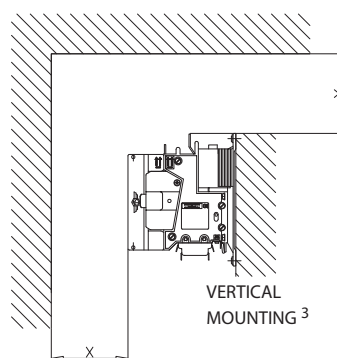
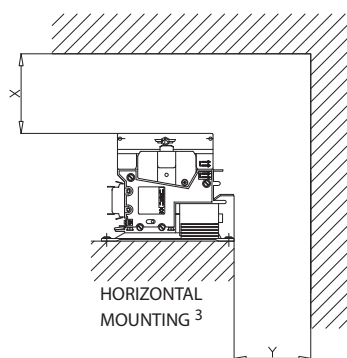
Electrical Characteristics

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	60
Conventional Free Air Thermal Current [A] at 75°C ²	40
DC-Rated Operational Current (τ=15ms) [A]	
1800V	50
900V	100
DC-Maximum Breaking Capacity (τ=5ms) [A]	
1800V	60
900V	115
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]	
1800V	80
900V	160
Component Category / Operational Frequency Class	A2 / C3
Short Circuit Withstand Capacity for 5ms [kA]	2
Critical Current Range [A]	< 5 (U > 1500V _{dc})
Fault Making Capacity [kA]	1.2
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
900V	Metal Parts	80	50	30
	Plastic Parts	50	30	20

Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
1800V	Metal Parts	80	50	50
	Plastic Parts	50	30	20



³ 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]	1.6

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]	12 - 12
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	50 - 25
Time Constant (L/R) at Pick Up - when Holding [ms]	25 - 50
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts

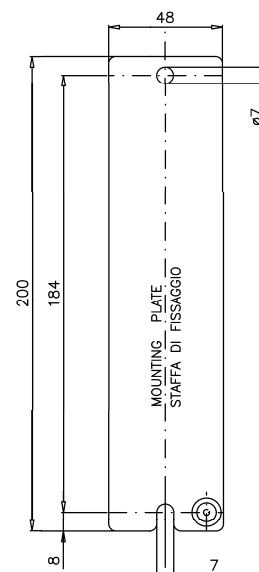
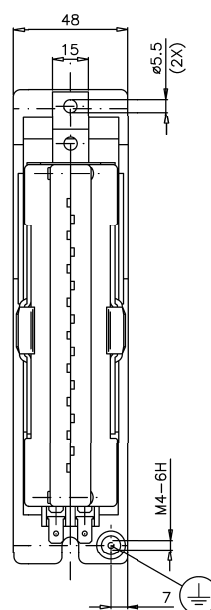
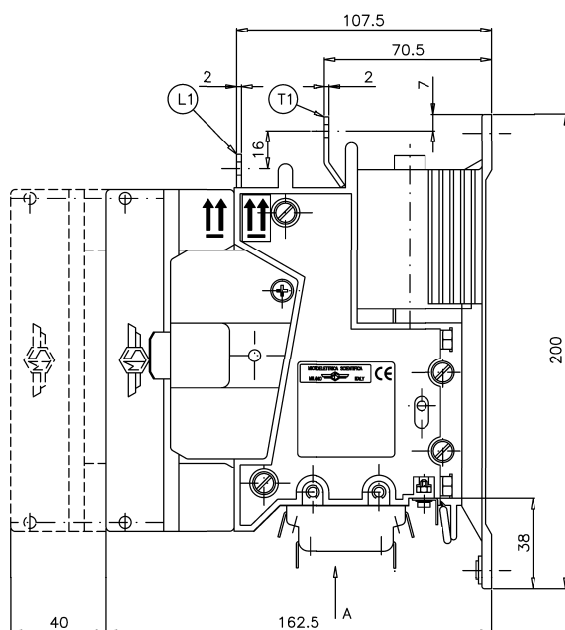
Tips material	Solid Silver
Rated Operational Voltage [V _{ac} / V _{dc}]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{dc} [mA] ⁴	20
Electrical Connections	Fast-On 6.35x0.8mm

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



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