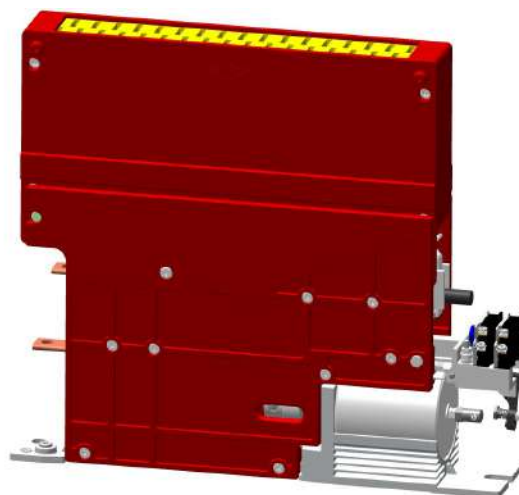


Special Family Code LTHH02501RFI0

Family Type	LTHH 250
Number / Type of Poles	1 / NO
Mounting Position	Horizontal - Vertical ⁽¹⁾
Control Voltage Rating U _c (DC) [V]	24 - 36 - 48 - 72 - 110- 132 ⁽¹⁾
Auxiliary Contact Blocks	2 x (1 NO + 1 NC)
Block Type	PBX
Arc-chute Material	Ceramic
Main Contacts Tips Material	S6
Arcing Contacts Tips Material	S6
Electric Diagram	-
Layout Drawing	D55824



Description

Contactors with single interruption in air, electromagnetic control by full power coil. With increased opening contacts. Single state functioning. Reference Standards IEC 60077, IEC 61992, IEC 60947 and CEI EN 50123-3.

Insulation Characteristics		
Rated Operational Voltage (AC / DC)	[V]	3600 / 1800 / 900
Max Operational Voltage (AC / DC)	[V]	4000
Rated Insulation Voltage	[V]	4000
Rated Impulse Voltage	[kV]	40
Rated Power Frequency Withstand Voltage (50 Hz for 60 s)		
Between HV to LV Circuit + Earth	[V]	18500
Between Open Contacts	[V]	18500
Between Each Pole (if more than 1)	[V]	-
Between LV Circuit and Earth	[V]	2000
Minimum Clearance Distance between Open Contacts	[mm]	32
Minimum Clearance Distance between Power Circuit to Earth	[mm]	40
Minimum Creepage Distance between Power Circuit to Earth	[mm]	50
Comparative Tracking Index (CTI) (IEC 60112)	[V]	600

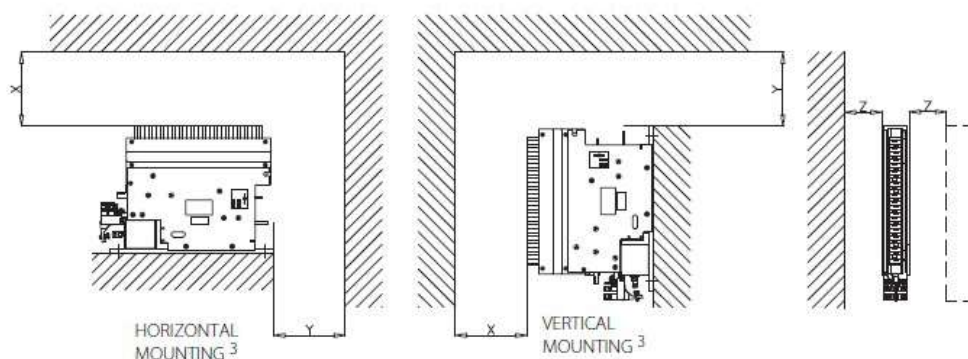
Electrical Characteristics		
Conventional Free Air Thermal Current at 40 °C ⁽²⁾	[A]	300
Conventional Free Air Thermal Current at 75 °C ⁽²⁾	[A]	250
DC - Rated Operational Current (τ = 15 ms)		
3600 V	[A]	270
1800 V	[A]	450
900 V	[A]	900
DC - Maximum Breaking Capacity (τ = 5 ms)		
3600 V	[A]	400
1800 V	[A]	580
900 V	[A]	1160
AC - Maximum Breaking Capacity (cosφ = 0,8; 50 Hz)		
3600 V	[A]	400
1800 V	[A]	800
900 V	[A]	1160
Component Category / Operational Frequency Class		A2 / C3
Rated Short Time Withstand Current	[kA]	6 (for 5 ms)
Critical Current Range	[A]	< 10 (U > 3000 Vdc)
Fault Making Capacity	[kA]	3.6
Blow Out Circuit Type		Indirect Coil with Arcing Contact

The technical specifications reported are not binding and they should be agreed in the related contract.

Minimum Clearances [mm] from:				
Rated Operational Voltage	X	Y	Z	
3600 V	Metal Parts	200	80	50
	Plastic Parts	100	50	30

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

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



Mechanical Characteristics

Mechanical Endurance	[cycles]	2 x 10 ⁶
Shock and Vibrations (IEC 61373)		Cat.1 - Class B
Weight	[kg]	8.5

Control Circuit

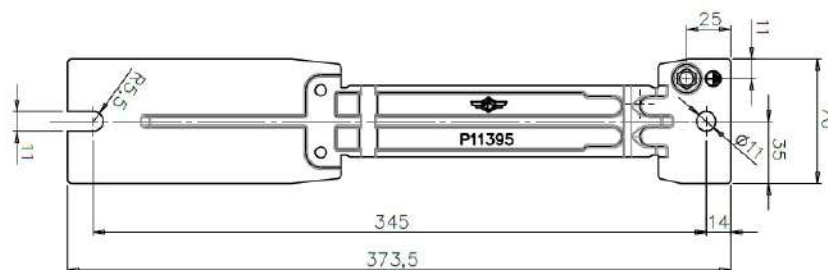
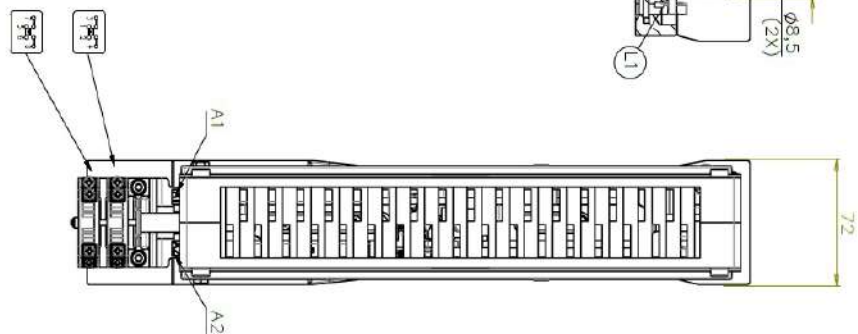
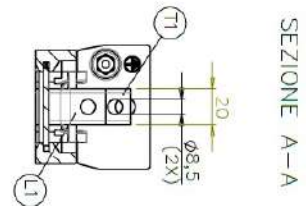
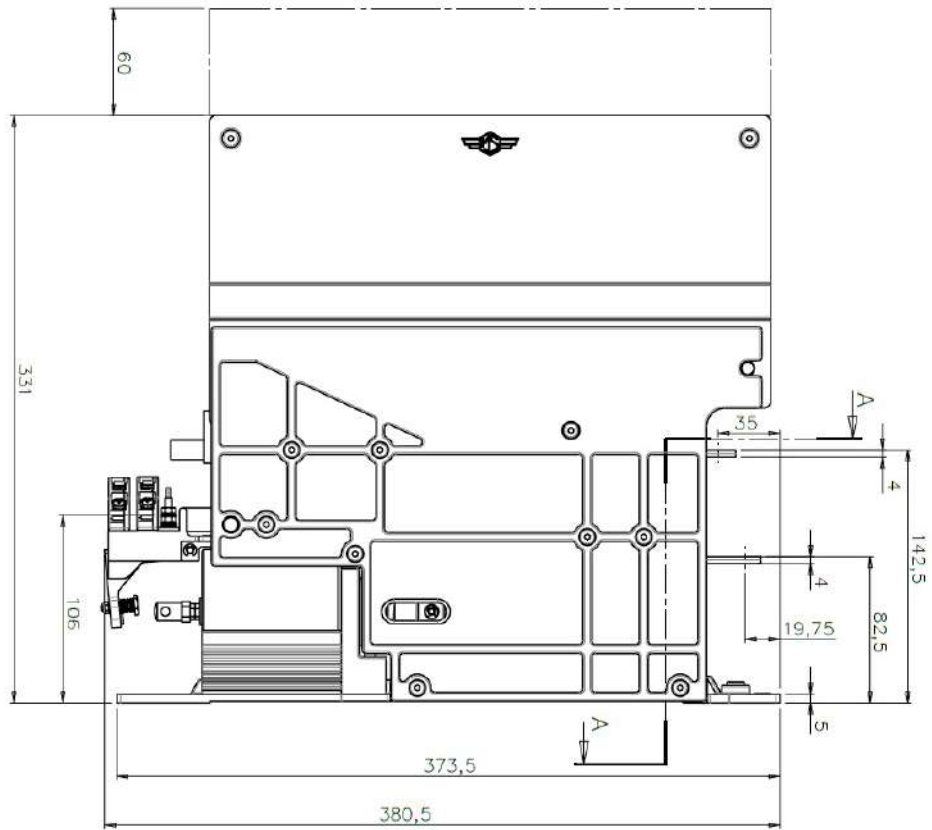
Control Voltage Range	[V]	0.7U _c ÷ 1.25U _c
Power Consumption (U _c and T = 20 °C) at Pick Up - when Holding	[W]	50 - 50
Mechanical Operation Time (U _c and T = 20 °C) when Closing - Opening	[ms]	100 - 25
Time Constant (L/R) at Pick Up - when Holding	[ms]	50 - 80
Electrical Connections		Fast-on 6.35 x 0.8 mm (optional: screw)

Auxiliary Contact

Rated Operational Voltage (AC / DC)	[V]	250
Conventional Free Air Thermal Current at 40 °C	[A]	10
Tips Material		Silver Alloy (Optional: Golden Plated)
Minimum Let-through Current at 24 - 72 - 110 VDC ⁽⁴⁾	[mA]	20(10) - 15(7.5) - 10(5) ⁽⁴⁾
Electrical Connections		Fast-on 6.35 x 0.8 mm (optional: screw)

Environmental Conditions

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



Notes:

1. To be specified in order phase
2. Device cabled according IEC 60947
3. Other mounting positions not allowed, reduced distances should be approved by MS
4. Reference Standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. The values with golden plated tips are indicated between brackets. For different working conditions, please contact MS
5. According to EN 50125-1



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