



STANDARD FAMILY CODE LTHH02501DAB0

Family Type	LTHH 250
Number / Type of Poles	1 / NO
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating Uc (DC) [V]	24 - 36 - 48 - 72 - 110 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	D53708

¹ To be specified in order phase.



Description

Contactor with single interruption in air, electromagnetic control by full power coil. Single state functioning. Reference Standards IEC 60077, IEC 61992 and IEC 60947.

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]	30
Rated Power Frequency Withstand Voltage (50 Hz for	60 s)		
Between HV to LV Circuit + Earth		[V]	10000
Between Open Contacts		[V]	7900
Between Each Pole (if more than 1)		[V]	-
Between LV Circuit and Earth		[V]	1500
Minimum Clearance Distance between Open Contact	ts	[mm]	27
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 $^{\circ}C^{2}$	[A]		300
Conventional Free Air Thermal Current at 75 $^\circ$ C ²	[A]		250
DC - Rated Operational Current ($\tau = 15 \text{ ms}$)			
3600 V	[A]		270
1800 V	[A]		450
900 V	[A]		900
DC - Maximum Breaking Capacity ($\tau = 5 \text{ ms}$)			
3600 V	[A]		400
1800 V	[A]		580
900 V	900 V [A]		1160
AC - Maximum Breaking Capacity ($\cos \varphi = 0.8$; 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]		None
Fault Making Capacity	[kA]		3.6
Blow Out Circuit Type			Indirect Coil with Arcing Contact

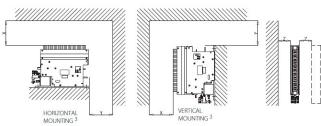
² Device cabled according IEC 60947

³ Other mounting positions not allowed, reduced distances should be approved by Microelettrica

Minimum clearances [mm] from:				
Rated Op Voltage	perational	х	Y	z
3600 V	Metal Parts	200	80	50
3000 V	Plastic Parts	100	50	30

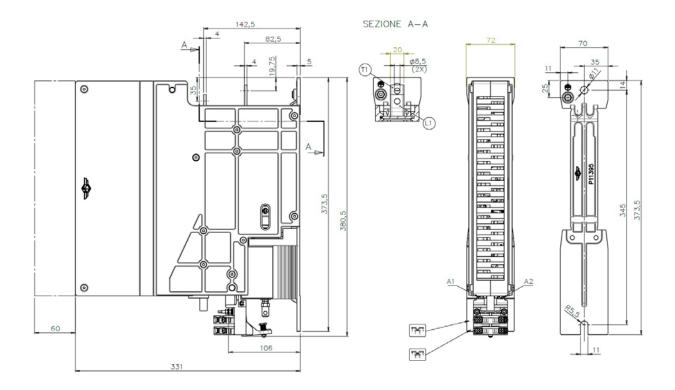
Minimum clearances [mm] from:				
Rated Op Voltage	perational	х	Y	Z
900 V	Metal Parts	100	50	30
	Plastic Parts	50	30	20

Minimum clearances [mm] from:				
Rated Op Voltage	perational	х	Y	z
1800 V	Metal Parts	120	50	50
	Plastic Parts	50	30	20



GOST recognized		
Nominal Voltage (AC / DC)	[V]	750
Max Operational Voltage (AC / DC)	[V]	1000
Commutation Ability according to GOST 9219-88		
Critical Commutation Ability @ 1000Vdc (L=50mH)	[A]	10
Maximum Commutation Ability @ 1000Vdc (L=10mH)	[A]	120
Stipulated Commutation Ability @ 750Vdc (L=10mH)	[A]	100
Shock and Vibrations (GOST 30631)		M25
Minimum environment air working temperature according to GOST 9219-88	[°C]	-60
Minimum Insulance Resistance (NCC/Heat-resistance/humidity)	[MOhm]	100/10/0.5
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]	0.7Uc ÷ 1.25Uc
Power Consumption (Uc and T = 20 °C) at Pick Up - when Holding	[W]	35 - 35
Mechanical Operation Time (Uc and T = 20 °C) when Closing - Opening	[ms]	100 - 25
Time Constant (L/R) at Pick Up - when Holding	[ms]	30 - 80
Electrical Connections		Fast-on 6.35 x 0.8 mm
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
Environmental Conditions		
Stock Temperature Range	[°C]	-50 ÷ +85
Operational Temperature Range	[°C]	Tx (-40 ÷ +75) ⁵
Pollution Degree - Overvoltage Category (EN 50124-1)		PD3 - OV3
Max Altitude without Performance Derating	[m]	2000

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 Microelettrica
⁵ According to IEC 50125-1



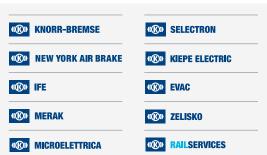
The technical specifications reported are not binding and they should be agreed in the contract.

For further technical information on our products visit www.microelettrica.com

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