

STANDARD FAMILY CODE LTHS05003_A00

	STD	MP	НР
Family Type	LTHS 500 STD	LTHS 500 MP	LTHS 500 HP
Number / Type of Poles	3 / NO		
Mounting Position	Vertical / Horizontal ¹		
Control Voltage Rating Uc (DC) [V]	24 - 36 - 48 - 72 - 110 ¹		
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	S6		
Electric Diagram	-		
Layout Drawing	D56469 D56468 D56360		

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.

Insulation Characteristics					
Rated Operational Voltage (AC / DC)	[V]	18	00 / 900 / 4	140	
Max Operational Voltage (AC / DC)	[V]	2000			
Rated Insulation Voltage	[V]	2000			
Rated Impulse Voltage	[kV]	12			
Rated Power Frequency Withstand Voltage (50 Hz for 60 s)					
Between HV to LV Circuit + Earth	[V]		6000		
Between Open Contacts	[V]		4700		
Between Each Pole (if more than 1)	[V]		6000		
Between LV Circuit and Earth	[V]		1500		
Minimum Clearance Distance between Open Contacts	[mm]		13.5		
Minimum Clearance Distance between Power Circuit to Earth	[mm]		14		
Minimum Creepage Distance between Power Circuit to Earth	[mm]		25		
Comparative Tracking Index (CTI) (IEC 60112)	[V]		600		
Electrical Characteristics		STD	MP	HP	
Conventional Free Air Thermal Current at 40 °C ²	[A]		550		
Conventional Free Air Thermal Current at 75°C^2	[A]	500			
DC - Rated Operational Current $(\tau = 15 \text{ ms})$					
1800 V	[A]	-	-	-	
900 V [A] -		-	-	-	
DC - Maximum Breaking Capacity $(\tau = 5 \text{ ms})$					
1800 V	[A]	-	-	-	
900 V	[A]	-	-	-	
AC - Maximum Breaking Capacity ($cos\phi = 0.8$; 50 Hz)					
1800 V	[A]	275	1000	1500	
900 V	[A]	750	1900	2700	
Component Category / Operational Frequency Class		A2/C3			
Rated Short Time Withstand Current	[kA]	5 (for 100 ms)			
Critical Current Range	[A]	None at 900 Vdc < 5A at 1800 Vdc			
Fault Making Capacity	[kA]		5		
Blow Out Circuit Type		Indire	ct coil with contact	arcing	

² Device cabled according IEC 60947

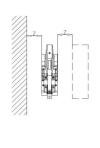
³ Other mounting positions not allowed, reduced distances should be approved by Microelettrica

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

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

Minimum clearances [mm] from:				
Rated Op Voltage	X	Υ	Z	
440 V	Metal Parts	100	50	30
	Plastic Parts	50	30	20

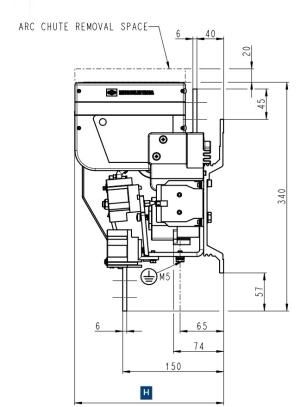


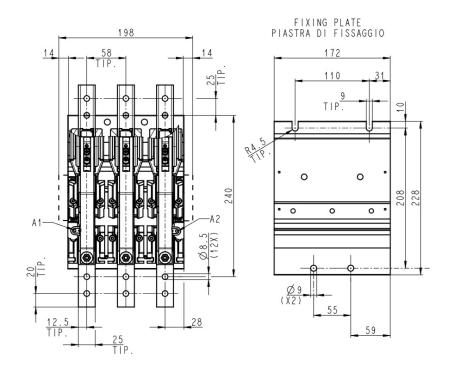


Mechanical Characteristics		
Mechanical Endurance	[cycles]	2 x 10 ⁶
Shock and Vibrations (IEC 61373)		Cat.1 - Class B
Weight (STD / MP / HP)	[kg]	14.2 / 14.4 / 14.6
Control Circuit		
Control Voltage Range	[V]	0.7Uc ÷ 1.25Uc
Power Consumption (Uc and T = 20 $^{\circ}$ C) at Pick Up - when Holding	[W]	50 - 50
Mechanical Operation Time (Uc and T = $20 ^{\circ}$ C) when Closing - Opening	[ms]	110 - 30
Time Constant (L/R) at Pick Up - when Holding	[ms]	60 - 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]	$Tx (-40 \div +75)^5$
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

 $^{^{\}rm 5}$ 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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