

SWITCHES

STANDARD FAMILY CODE LTHS08002*A04

Family Type	LTHS 800
Number / Type of Poles	2 / NO
Connection between Poles	Single - Series - Parallel ¹
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	SL
Arc-chute Material	Ceramic
Main Contacts Tips Material	S6
Arcing Contacts Tips Material	S6
Electric Diagram	-
Layout Drawing	D48540

¹ To be specified in order phase.



Description

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

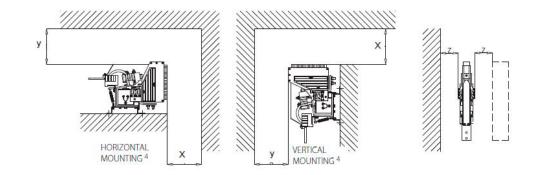
Insulation Characteristics							
Rated Operational Voltage (AC / DC)			[V]	1800 / 900			
Max Operational Voltage (AC / DC)			[V]	[V] 2000			
Rated Insulation Voltage			[V] 2000				
Rated Impulse Voltage			[kV]	12			
Rated Power Frequency Withstand Voltage (50 Hz for 60 s)							
Between HV to LV Circuit + Earth			[V]	[V] 6000			
Between Open Contacts				[V] 4700			
Between Each Pole (if more than 1)			[V] 6000		6000		
Between LV Circuit and Earth			[V] 1500		1500		
Minimum Clearance Distance between Open Contac	ts		[mm] 16		16		
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							
Connection Type		Sing	Single Se		es²	Parallel ²	
Conventional Free Air Thermal Current at 40 °C ³	[A]	920	920 920			1840	
Conventional Free Air Thermal Current at 75 $^{\circ}C^{3}$	[A]	800	800 800			1600	
DC - Rated Operational Current ($\tau = 15 \text{ ms}$)							
1800 V	[A]	750	750 15		C	750	
900 V	[A]	154	40 300		C	1540	
DC - Maximum Breaking Capacity ($\tau = 5 \text{ ms}$)							
1800 V	[A]	800	800		0	800	
900 V	[A]	175	1750		0	1750	
AC - Maximum Breaking Capacity ($\cos \phi = 0.8$; 50 Hz)							
1800 V	[A]	115	1150		0	1150	
900 V	[A]	230	2300		0	2300	
Component Category / Operational Frequency Class		A2 /	A2/C3		C3	A2 / C3	
Rated Short Time Withstand Current	[kA]	12 (12 (for 5 ms)		for 5 ms)	20 (for 5 ms)	
Critical Current Range	[A]	Nor	None		e	None	
Fault Making Capacity	[kA]	7.2		7.2		12	
Blow Out Circuit Type		with	rect Coil n Arcing itact		rect Coil Arcing tact	Indirect Coil with Arcing Contact	

² Series or parallel bar connections are available under request

³ Device cabled according IEC 60947

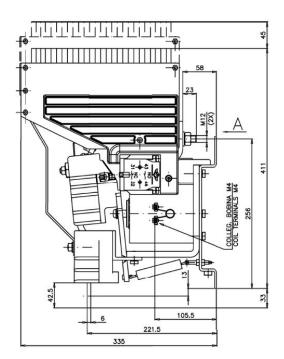
Minimum clearances [mm] from:				
Rated Op Voltage	perational	х	Y	z
1800 V	Metal Parts	120	50	50
	Plastic Parts	50	30	20

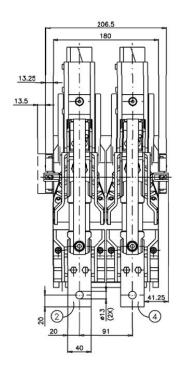
Minimum clearances [mm] from:				
Rated Operational Voltage		х	Y	Z
900 V	Metal Parts	100	50	30
	Plastic Parts	50	30	20

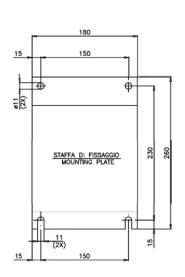


Mechanical Characteristics					
Mechanical Endurance	[cycles]	2 x 10 ⁶			
Shock and Vibrations (IEC 61373)		Cat.1 - Class B			
Weight	[kg]	28			
Control Circuit					
Control Voltage Range	[V]	0.7Uc ÷ 1.25Uc			
Power Consumption (Uc and T = 20 $^{\circ}$ C) at Pick Up - when Holding	[W]	60 - 60			
Mechanical Operation Time (Uc and $T = 20 \degree$ C) when Closing - Opening	[ms]	280 - 45			
Time Constant (L/R) at Pick Up - when Holding	[ms]	193.5 - 215			
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 VDC⁵	[mA]	20(10) - 15(7.5) - 10(5) ⁵			
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) ⁶			
Pollution Degree - Overvoltage Category (EN 50124-1)		PD3 - OV3			
Max Altitude without Performance Derating	[m]	2000			

⁴ Other mounting positions not allowed, reduced distances should be approved by Microelettrica ⁵ 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 ⁶ According to IEC 50125-1







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



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