



STANDARD FAMILY CODE LTHS03203HFO0

Family Type	LTHS 320
Number / Type of Poles	3 / NO
Mounting Position	Horizontal
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	\$6
Arcing Contacts Tips Material	S6
Electric Diagram	-
Layout Drawing	D50699

¹ To be specified in order phase.



Description

Contactor with single interruption in air, electromagnetic control by full power coils. Single state functioning. Special execution for frequency up to 400 Hz and short circuit interruption capabilities. Reference Standard IEC 60077.

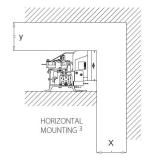
Insulation Characteristics			
Rated Operational Voltage (AC / DC)		[V]	1800 / 900
Max Operational Voltage (AC / DC)		[V]	2000
Rated Insulation Voltage		[V]	2000
Rated Impulse Voltage		[kV]	12
Rated Power Frequency Withstand Voltage (50 Hz for	60 s)		
Between HV to LV Circuit + Earth		[V]	6000
Between 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	÷		
Conventional Free Air Thermal Current at 40 $^\circ C^2$	[A]		350
Conventional Free Air Thermal Current at 75 °C ²	[A]		300
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 ($\cos \varphi = 0.8$; 50 Hz)			
1800 V	[A]		900
900 V	[A]		1200
Component Category / Operational Frequency Class			A2 / C3
Rated Short Time Withstand Current	[kA]		8 (for 5 ms)
Critical Current Range	[A]		None
Fault Making Capacity	[kA]		4.8
Blow Out Circuit Type			Indirect Coil with Arcing Contact

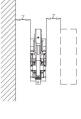
² Device cabled according IEC 60947

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

Minimum clearances [mm] from:				
Rated Op Voltage	perational	Х	Y	Z
1800 V	Metal Parts	120	50	50
1800 V	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

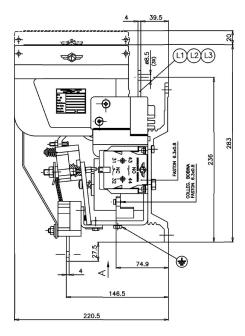


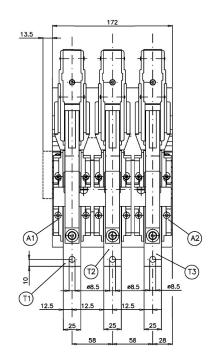


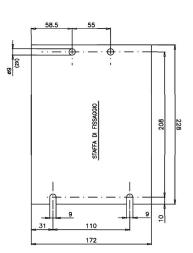
Mechanical Characteristics		
Mechanical Endurance	[cycles]	2 x 10 ⁶
Shock and Vibrations (IEC 61373)		Cat.1 - Class B
Weight	[kg]	13
Control Circuit		
Control Voltage Range	[V]	0.7Uc ÷ 1.25Uc
Power Consumption (Uc and T = 20 °C) at Pick Up - when Holding	[W]	50 - 50
Mechanical Operation Time (Uc and $T = 20 °C$) 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 ÷ +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.



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