

SWITCHES

STANDARD FAMILY CODE LTHS06503*A03

Family Type	LTHS 650
Number / Type of Poles	3 / 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	-
Electric Diagram	SC27680
Layout Drawing	D55047

¹ To be specified in order phase.



Description

Contactor with double interruption in air, electromagnetic control by starter power savew system for double winding coil. Reference Standards IEC 60077, IEC 61992 and IEC 60947.

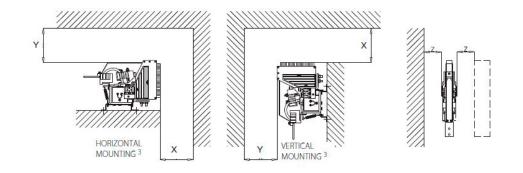
Rated Operational Voltage (AC / DC)	[V]	1800 / 900
Max Operational Voltage (AC / DC)	[V]	2000
lated Insulation Voltage	[V]	2000
ated Impulse Voltage	[kV]	12
ated Power Frequency Withstand Voltage (50 Hz for 60 s)		
Between HV to LV Circuit + Earth	[V]	6000
Between Open Contacts	[V]	4700
Between Each Pole (if more than 1)	[V]	6000
Between LV Circuit and Earth	[V]	1500
Ainimum Clearance Distance between Open Contacts	[mm]	16
Ninimum Clearance Distance between Power Circuit to Earth	[mm]	14
Ainimum Creepage Distance between Power Circuit to Earth	[mm]	25
omparative Tracking Index (CTI) (IEC 60112)	[V]	600
lectrical Characteristics		
Conventional Free Air Thermal Current at 40 °C ²	[A]	700
onventional Free Air Thermal Current at 75 $^{\circ}C^{2}$	[A]	650
pC - 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]	-
C - Maximum Breaking Capacity ($\cos \varphi = 0,8$; 50 Hz)		
1800 V	[A]	1850
900 V	[A]	3750
omponent Category / Operational Frequency Class		A2 / C3
ated Short Time Withstand Current	[kA]	12 (for 5 ms)
Tritical Current Range	[A]	None
ault Making Capacity	[kA]	7.2
Blow Out Circuit Type		Indirect Coil

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
	Plastic Parts	50	30	20

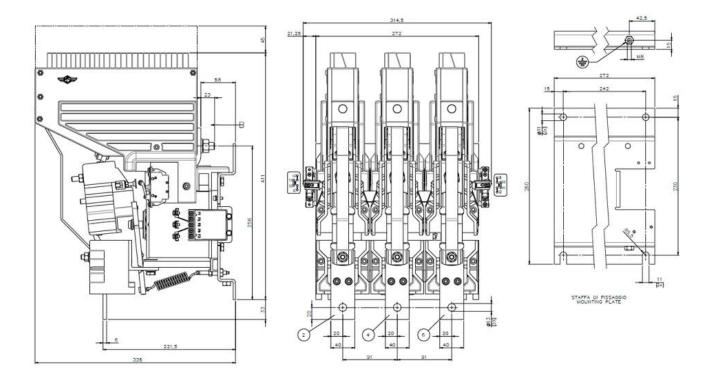
Minimum clearances [mm] from:				
Rated Operational Voltage		х	Y	Z
900 V	Metal Parts	100	50	30
	Plastic Parts	50	30	20



Mechanical Characteristics				
Mechanical Endurance	[cycles]	2 x 10 ⁶		
Shock and Vibrations (IEC 61373)		Cat.1 - Class B		
Weight	[kg]	38.5		
Control Circuit				
Control Voltage Range	[V]	0.7Uc ÷ 1.25Uc		
Power Consumption (Uc and T = 20 $^{\circ}$ C) at Pick Up - when Holding	[W]	180 - 30		
Mechanical Operation Time (Uc and $T = 20 °C$) when Closing - Opening	[ms]	220 - 40		
Time Constant (L/R) at Pick Up - when Holding	[ms]	5 - 5		
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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