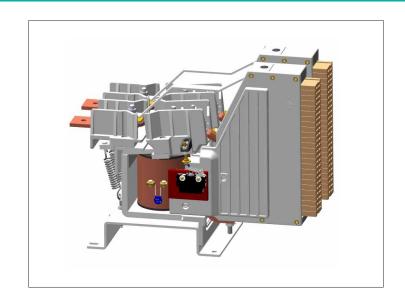
## Standard Family Code LTHS04012DAA0

Mounting Position	Horizontal - Vertical <sup>1</sup>
Connection between poles	Single, series or parallel
Control Voltage Rating [Vdc]	24 - 36 - 48 - 72 - 110 <sup>1</sup>
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	-
Layout Drawing	D54033



## Description

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

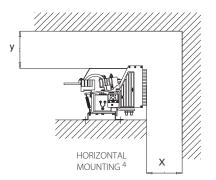
Insulation Characteristics		
Rated Operational Voltage [Vac / Vdc]	900 / 1800¹	
Max Operational Voltage [Vac / Vdc]	2000	
Rated Insulation Voltage [V]	2000	
Rated impulse voltage [kV]	30	
Rated Power Frequency Withstand Voltage (50Hz; 60")		
Between HV to LV circuit + Earth [V]	6000	
Between open contacts [V]	4700	
Between each pole (if more than 1) [V]	6000	
Between LV circuit to Earth [V]	1500	
Minimum clearance distance Between open contacts [mm]	16	
Minimum clarence distance between power circuit to earth [mm]	30	
Minimum creapage distance	80	
Compartive Tracking Index (CTI) (IEC 60112) [V]	600	

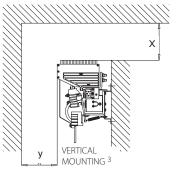
Electrical Characteristics				
Connection	Single Pole	Series Connected <sup>3</sup>	Parallel Connected <sup>3</sup>	
Arc chute Type		Ceramic		
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>	500	500	1000	
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>	400	400	800	
DC-Rated Operational Current (τ=15ms) [A]				
1800V	225	500	225	
900V	665	1400	665	
DC-Maximum Breaking Capacity (τ=5ms) [A]				
1800V	415	915	415	
900V	1160	2500	1160	
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]				
1800V	800	1800	800	
900V	2000	4500	2200	
Short Circuit Withstand Capacity for 5ms [kA]	10	10	18	
Critical Current Range [A]	< 50 (U > 1500Vdc)	< 25 (U > 1500Vdc)	< 50 (U > 1500Vdc)	
Fault Making Capacity [kA]	6	6	10	
Component Category / Operational Frequency Class	A2/C3			
Blow Out Circuit Type	Indirect coil			

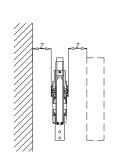




Minimum clearances [mm] from:				
Rated Operational Voltage X Y Z				
	Metal Parts	120	50	40
1800V	Plastic Parts	50	30	20





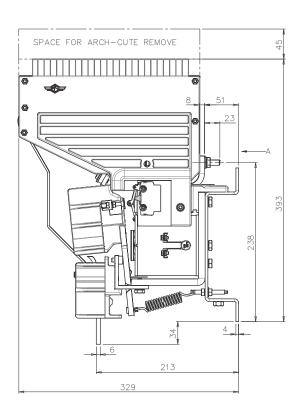


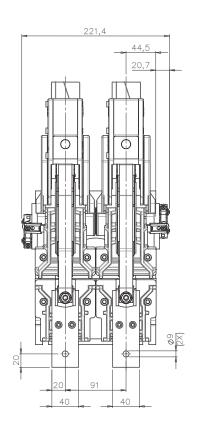
Mechanical Characteristics		
Mechanical Endurance (cycles)	2x10 <sup>6</sup>	
Shock and Vibrations (IEC61373)	Cat. 1 - Class B	
Weight [kg]	23	

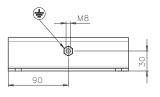
Control Circuit		
Control Voltage Range	0.7Uc ÷ 1.25Uc	
Power Consumption (Uc and T = 20°C) at Pick Up - when Holding [W]	60 - 60	
Mechanical Operation Time (U∈ and T = 20°C) when Closing - Opening [ms]	230 - 45	
Time Constant (L/R) at Pick Up - when Holding [ms]	190 - 215	
Electrical Connections	Fast-On 6.35x0.8mm	

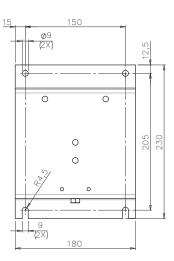
Auxiliary Contacts		
Rated Operational Voltage [Vac / Vdc]	250	
Conventional Free Air Thermal Current [A] at 40° C	10	
Tips material	Silver Alloy (Optional: Golden Plated)	
Minimum Let-Through Current at 24/72/110Vdc [mA] <sup>5</sup>	20(10)/15(7.5)/10(5)	
Electrical Connections	Fast-On 6.35x0.8mm	

Environmental Conditions		
Stock Temperature Range	-50°C ÷ +85°C	
Operational Temperature Range	Tx (-40°C ÷ +75°C) <sup>6</sup>	
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3	
Max Altitude without Performance Derating [m]	2000	









## Notes

- 1. To be specified in order phase
- 2. Device cabled according IEC 60947
- 3 Series or parallel bar connections are available under request
- 4. Other mounting positions not allowed, reduced distances should be approved by MS.
- 5. Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. For different working condictions, please contact MS.
- 6. According to IEC50125-1



This publication may be subject to alteration without prior notice. A printed copy of



