Switches

Standard Family Code LTC002503*A01



Contactor with double interruption in air, electromagnetic control by delayed auxiliary switch power system for double winding coil. Single state functio-

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

Type	LTCS 250 or LTCH 250
Number of Poles	3 NO
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating Uc [Vdc]	24 - 36 - 48 - 72 - 110 ¹
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Block Type	SL
Arc chute Material	Polyester Resin - Ceramic ¹
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	-
Polyester Resin Layout Drawing	D47488
Ceramic Layout Drawing	D47612

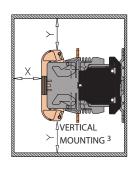
¹ To be specified in order phase.

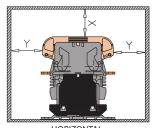
Electrical Characteristics			
Rated Operational Voltage [Vac / Vdc]	440 /90	440 /900 / 1800 ¹	
Max Operational Voltage [Vac / Vdc]	20	2000	
Rated Insulation Voltage [V]	20	00	
Conventional Free Air Thermal Current [A] at 40°C ²	2.5	50	
Conventional Free Air Thermal Current [A] at 75°C ²	200		
	Polyester Resin arc chute	Ceramic arc chute	
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [kVA]			
1800V	60	72	
900V	250	300	
440V	320	400	
Component Category / Operational Frequency Class	A2 /	′ C3	
Short Circuit Withstand Capacity for 100ms [kA]	5	5	
Critical Current Range [A]	DC Revers	DC Reverse current	
Fault Making Capacity [kA]	2.	2.4	
Blow Out Circuit Type	Permanent Magnet		
Blow Out Circuit Type	Permanent Magnet		

 $^{^{2}}$ Device cabled according IEC 60947

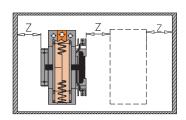
Minimum clearances [mm] from:				
Rated Operational Voltage X		Х	Υ	Z
900V	Metal Parts	80	80	20
	Plastic Parts	50	50	0

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





HORIZONTAL MOUNTING ³



³ OTHER MOUNTING POSITIONS NOT ALLOWED



Switches

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Mechanical Characteristics	
Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight Poliester Resin / Ceramic [kg]	4.5 / 5

Control Circuit	
Control Voltage Range	0.7Uc ÷ 1.25Uc
Power Consumption (U _c and T = 20°C) at Pick Up - when Holding [W]	100 - 20
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	50 - 20
Time Constant (L/R) at Pick Up - when Holding [ms]	25 - 80
Electrical Connections	Fast-On 6.35x0.8mm

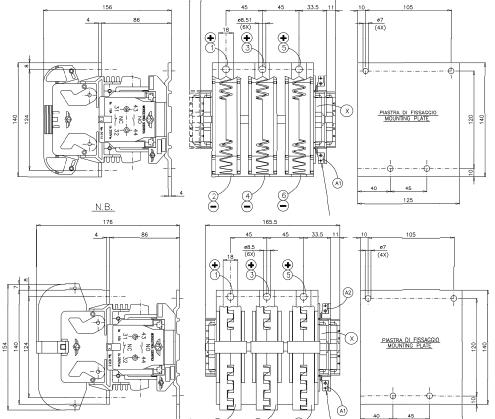
Auxiliary Contacts	
Tips material	Solid Silver
Rated Operational Voltage [Vac / Vdc]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{dc} [mA] ⁴	20
Electrical Connections	Fast-On 6.35x0.8mm

Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	$Tx (-40^{\circ}C \div +75^{\circ}C)^{5}$
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 / OV3
Max Altitude without Performance Derating [m]	2000

<u>N.B.</u>

⁵ In according to IEC50125-1

Layout drawing for Polyester Resin arc chute



Layout drawing for Ceramic arc chute





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⁴ In clean and dry conditions ⁵ In accordi