



## STANDARD FAMILY CODE LTC001002\*A01

Family Type	LTC 100
Number / Type of Poles	2 / NO
Connection between Poles	Single - Series - Parallel <sup>1</sup>
Mounting Position	Horizontal - Vertical <sup>1</sup>
Control Voltage Rating Uc (DC) [V]	24 - 36 - 48 - 72 - 110 <sup>1</sup>
Auxiliary Contact Blocks	2 x (1 NO + 1 NC)
Block Type	LS
Arc-chute Material	Polyester Resin
Main Contacts Tips Material	\$6
Arcing Contacts Tips Material	-
Electric Diagram	-
Layout Drawing	D50564

<sup>1</sup> 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]	900 / 4	140
Max Operational Voltage (AC / DC)			[V]	1000	
Rated Insulation Voltage			[V]	V] 1000	
Rated Impulse Voltage			[kV]	8	
Rated Power Frequency Withstand Voltage (50 Hz for 60 s)		) Hz for 60 s)			
Between HV to LV Circuit + Earth			[V]	/] 3500	
Between Open Contacts			[V]	[V] 3100	
Between Each Pole (if more than	1)		[V]	3500	
Between LV Circuit and Earth			[V]	1500	
Minimum Clearance Distance betwee	en Open	Contacts	[mm]	9	
Minimum Clearance Distance betwee	en Power	Circuit to Earth	[mm]	8	
Minimum Creepage Distance betwee	n Power	Circuit to Earth	[mm]	12.5	
Comparative Tracking Index (CTI) (IEC	60112)		[V]	600	
Electrical Characteristics					
Connection Type		Single	Series <sup>2</sup>		Parallel <sup>2</sup>
Conventional Free Air Thermal Current at 40 °C <sup>3</sup>	[A]	100	100		200
Conventional Free Air Thermal Current at 75 °C <sup>3</sup>	[A]	80	80		160
DC - Rated Operational Current ( $\tau = 15 \text{ ms}$ )					
900 V	[A]	16	30		16
440 V	[A]	40	72		40
DC - Maximum Breaking Capacity ( $\tau = 5 \text{ ms}$ )					
900 V	[A]	25	40		25
440 V	[A]	60	100		60
AC - Maximum Breaking Capacity (cos $\phi = 0,8$ ; 50 Hz)					
900 V	[A]	40	60		40
440 V	[A]	80	120		80
Component Category / Operational Frequency Class		A2/C3	A2 / C3		A2 / C3
Rated Short Time Withstand Current	[kA]	1.5 (for 5 ms)	1.5 (for 5 ms)	)	3 (for 5 ms)
Critical Current Range	[A]	DC Reverse Current	DC Reverse 0	Current	DC Reverse Current
Fault Making Capacity	[kA]	0.9	0.9		1.8
Blow Out Circuit Type		Permanent Magnet	Permanent N	<i>A</i> agnet	Permanent Magnet

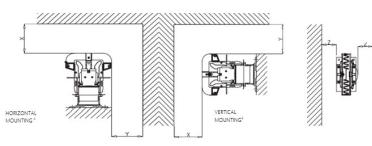
<sup>2</sup> Series or parallel bar connections are available under request

<sup>3</sup> Device cabled according IEC 60947 4 Other mounting positions not allowed, reduced distances should be approved by Microelettrica

Minimum c	o a ran coc		from
	learances	سس	

Rated Operational Voltage		х	Y	Z
900 V	Metal Parts	100	100	30
	Plastic Parts	50	50	20

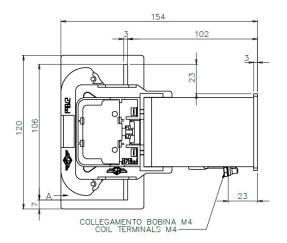
Minimum clearances [mm] from:				
Rated Operational Voltage		х	Y	z
440 V	Metal Parts	100	100	30
440 V	Plastic Parts	50	50	20

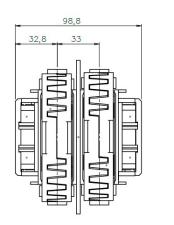


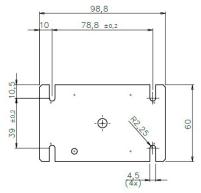
[cycles]	2 x 10 <sup>6</sup>
	Cat.1 - Class B
[kg]	2
[V]	0.7Uc ÷ 1.25Uc
[W]	24 - 24
[ms]	50 - 20
[ms]	70 - 125
	Fast-on 6.35 x 0.8 mm
[V]	250
[A]	10
	Silver Alloy (Optional: Golden Plated)
[mA]	20(10) - 15(7.5) - 10(5) <sup>5</sup>
	Fast-on 6.35 x 0.8 mm
[°C]	-50 ÷ +85
[°C]	Tx (-40 ÷ +75) <sup>6</sup>
	PD3 - OV3
[m]	2000
	[kg]   [kg]   [V]   [W]   [ms]   [V]   [A]   [mA]   [°C]   [°C]

<sup>5</sup> 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 EN 50125-1







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



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