

SWITCHES

STANDARD FAMILY CODE LTONIX152*PA2 - DRAFT

Type	LRU
Number of Poles	1 NO
Mounting Position	Vertical
Control Voltage Rating [V ^{dc}]	24 - 36 - 48 - 72 - 110 ¹
Auxiliary Contact Blocks LTCH 1000	2 x (1 NO + 1 NC)
Auxiliary Contact Blocks LTCH 60	2 x (1 NO + 1 NC)
Block Type	PBX
Arc chute Material LTCH 1000	Ceramic
Arc chute Material LTCH 60	Ceramic
Contact tips material LTCH 1000	S6
Contact tips material LTCH 60	S6
Electric Diagram	SC27361
Layout Drawing	D52336

¹ To be specified in order phase.



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Description

New modular integrated system consisting of LTCH1000 line contactor associated with LTCH 60 pre-charge contactor and pre-charge resistor. Reference standard IEC60077.

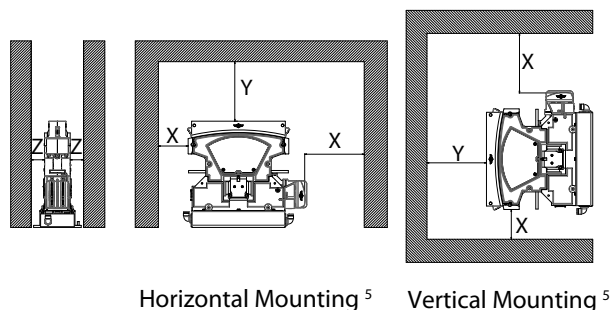
Electrical Characteristics	LTCH 1000	LTCH 60
Rated Operational Voltage [V_{ac} / V_{dc}]	900 / 1800 ¹	900 / 1800 ¹
Max Operational Voltage [V_{ac} / V_{dc}]	2000	2000
Rated Insulation Voltage [V]	2000	2000
Conventional Free Air Thermal Current [A] at 75°C ²	1000	50
DC-Rated Operational Current (t=15ms) [A]		
1800V	600	40
900V	1200	80
DC-Maximum Breaking Capacity (t=5ms) [A]		
2000V	1500	60
1000V	3000	120
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]		
2000V	1500	100
1000V	3000	200
Component Category / Operational Frequency Class	A2 / C3	A2 / C3
Short Circuit Withstand Capacity [kA]	20 (for 100 ms)	2 (for 5 ms)
Critical Current Range [A]	None	None
Fault Making Capacity [kA]	20	1.2
Blow Out Circuit Type	Indirect with Arcing Contact	Permanent Magnets

² Device cabled according IEC 60947

Resistor	
Max operational voltage (non permanent) [V]	1950
Rated insulation voltage [V]	1500
Resistance at 20°C [Ω]	40 ± 5%
Power Consumption [W] ³	400

Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
1800V	Metal Parts	80	50	50
	Plastic Parts	30	30	20

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



³ Maximum ambient temperature without derating 45°C

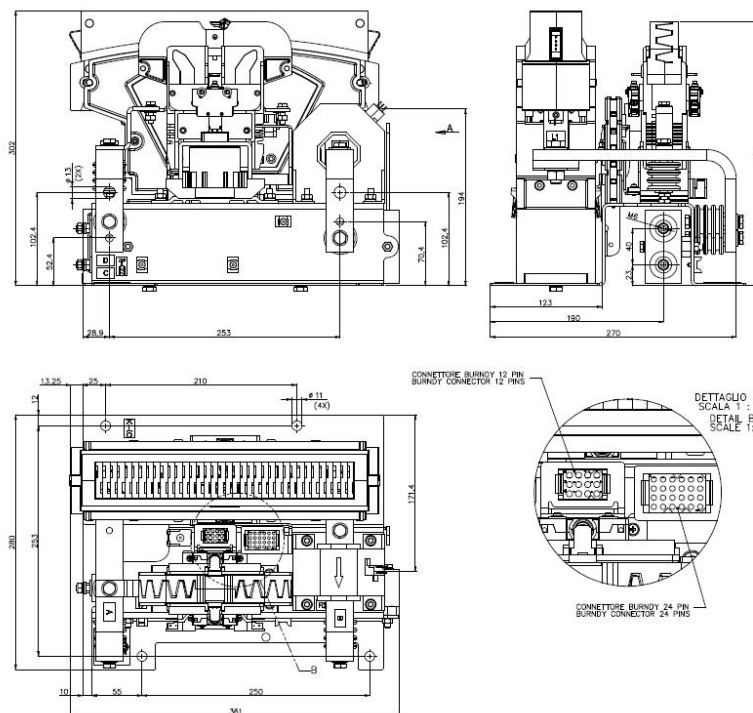
⁴ For further info see specific DS type GWK 312-160x56

⁵ Other mounting positions not allowed, reduced distances should be approved by Microelettrica.

Mechanical Characteristics			
Mechanical Endurance (cycles)	2x10 ⁶		
Shock and Vibrations (IEC61373)	Cat.1 - Class B		
Weight [kg]	15		
Control Circuit		LTCH 1000	LTCH 60
Control Voltage Range		0.7U _c ÷ 1.25U _c	0.7U _c ÷ 1.25U _c
Power Consumption (U _c and T = 20°C) at Pick Up - when Holding [W]		300 - 10	50 - 50
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]		150 - 40	60 - 50
Time Constant (L/R) at Pick Up - when Holding [ms]		5 - 30	5 - 30
Electrical Connections	AMP Connector		
Auxiliary Contacts		LTCH 1000	LTCH 60
Tips material		Silver Alloy (Optional: Golden Plated)	Solid Silver
Rated Operational Voltage [Vac / Vdc]		250	250
Rated Current [A]		10	10
Minimum Switching Current at 16Vdc [mA] ⁶		20(10)/15(7.5)/10(5)	100
Electrical Connections	AMP Connector		
Environmental Conditions			
Stock Temperature Range	-50°C ÷ +85°C		
Operational Temperature Range	Tx (-40°C ÷ +75°C) ⁷		
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3		
Max Altitude without Performance Derating [m]	2000		

⁶ In clean and dry conditions

⁷ In according to IEC50125-1



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

For further technical information on our products visit www.microelettrica.com

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