

SWITCHES

STANDARD FAMILY CODE LPRC10001*A00

Type	LPRC 1000
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical ¹
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 LTCS 150	2 x 1 CO
Block Type	PBX
Arc chute Material LTCH 1000	Ceramic
Arc chute Material LTCS 150	Plastic
Contact tips material LTCH 1000	S6
Contact tips material LTCS 150	Cu
Electric Diagram	SC27404
Layout Drawing	D52629

¹ To be specified in order phase.



MICROELETTRICA

Description

New modular integrated system LPRC1000 consisting of LTCH1000 line contactor associated with LTCS150 pre-charge contactor and pre-charge resistor. Reference standard IEC60077.

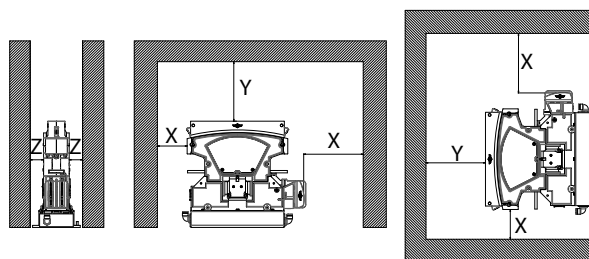
Electrical Characteristics	LTCH1000	LTCS150 2 Poles
Rated Operational Voltage [V_{ac} / V_{dc}]	900 / 1800 ¹	900 / 1800 ¹
Max Operational Voltage [V_{ac} / V_{dc}]	2000	2000
Rated Insulation Voltage [V]	2000	2000
Conventional Free Air Thermal Current [A] at 75°C ²	1000	50
DC-Rated Operational Current (t=15ms) [A]		
1800V	600	50
900V	1200	100
DC-Maximum Breaking Capacity [A]		
2000V	1000 @ 15 ms	80 @ 3 ms
1000V	2000 @ 15 ms	160 @ 3 ms
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]		
2000V	1200	90
1000V	2400	180
Component Category / Operational Frequency Class	A2 / C3	A2 / C3
Short Circuit Withstand Capacity [kA]	20 for 5 ms	1 for 100 ms
Critical Current Range [A]	None	None
Fault Making Capacity [kA]	20	1
Blow Out Circuit Type	Indirect with Arcing Contact	Permanent Magnets

¹Device cabled according IEC 60947

Resistor	
Max operational voltage [V]	2000
Rated insulation voltage [V]	2000
Resistance at 20°C [Ω] @ 900 Vdc	10 ÷ 150 ± 10% ¹
Resistance at 20°C [Ω] @ 1800 Vdc	40 ÷ 150 ± 10% ¹
Power Consumption (continuous duty) [W] ³	150
Power with duty cycle Ton/Toff = 1s/119s [KW] ⁴	120 (5 cycles)
Protection degree (excl. main terminals)	IP54

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



Horizontal Mounting³

Vertical Mounting⁵

³ Maximum ambient temperature without derating 75°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.

