

Switches

LTMP 1000 - 2000

Description

Modular Multipole-Multiposition off-load disconnecter.

The disconnecter is configurable assembling side by side up to 12 elements, 1000A or 2000A rated, 1CO, 1NO or 1NO + 1NC poles every one completely independent and controlled by a motor through an integrate electronic control device that allows all possible poles status combination. The modular structure allows easy maintenance through independent replaceability of every single pole.



Picture: 6NO + 6NC (1000A) + 2NO + 2NC (2000A)

The electronic control unit provides the possibility of interfacing every kind of control logic by means of a multi-master broadcast serial bus (CAN Bus). Poles control Bus is separated by field Bus. Feedbacks may be managed, on demand, by voltage free contacts through a low voltage connector installed on every pole. The control unit has an interface that optionally allows, using a dedicated software, diagnostics (n° of operations, Time tag, environment temperature, switching time....) and is directly accessible by a PC. Reference standard IEC 60077-2

Electrical Characteristics	
Rated Operational Voltage [Vac/ Vdc]	3000
Max Operational Voltage [Vac/ Vdc]	4000
Rated Insulation Voltage [V]	4000
Conventional Free Air Thermal Current [A] at 75°C (1000A pole)	1000
Conventional Free Air Thermal Current [A] at 75°C (2000A pole)	2000
DC-Rated Operational Current ($\tau=15\text{ms}$) [A]	0
DC-Maximum Breaking Capacity ($\tau=15\text{ms}$) [A]	0.4
AC-Maximum Breaking Capacity ($\cos\phi=0,8$) [A]	1
Short Circuit Withstand Capacity for 5ms [kA] (1000A pole)	120
Short Circuit Withstand Capacity for 5ms [kA] (2000A pole)	180
Component Category / Operational Frequency Class	A4 / C3



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Mechanical Characteristics	
Mechanical Endurance (cycles without part replacement)	25x10 ⁴
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	85
Control Circuit	
Control Voltage Rating [V _{dc}]	24 ÷ 110
Control Voltage Range	0.7Uc ÷ 1.25Uc
Power Consumption (Uc and T = 20°C) at Pick Up - when Holding [W]	25 - 0
Mechanical Operation Time (Uc and T = 20°C) when Closing - Opening [ms]	3000 - 3000
Electrical Connections	Connector
Auxiliary Contacts	
Tips material	Solid Silver
Rated Operational Voltage [V _{ac} / V _{dc}]	250
Rated Current [A]	5
Minimum Switching Current at 16Vdc [mA]	10
Electrical Connections	Connector (on demand)
Number of Auxiliary Contact Blocks	2 CO for each pole
Block Type	Automotive type
Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	-40°C ÷ +75°C
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 / OV3
Max Altitude without Performance Derating [m]	1500

