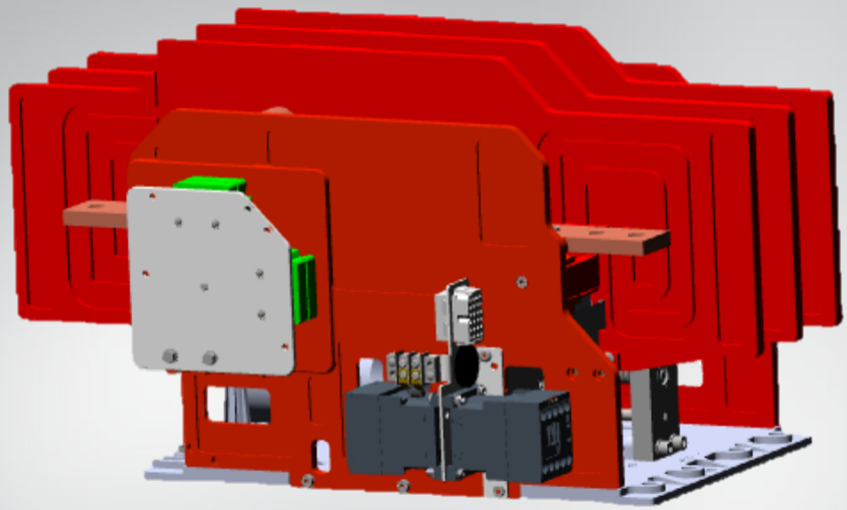


SWITCHES

STANDARD FAMILY CODE
LTHM08014XA00

Type	LTHMD 800
Number of Poles	4 NO
Mounting Position	Horizontal - Vertical[1]
Control Voltage Rating [V^{dc}]	24 - 36 - 72 - 110[1]
Auxiliary Contact Blocks	4 (1 NO + 1 NC)
Feedback Signal Scope	AUX C (a0, b0)
	AUX D (a1, b1)
Block Type	PBX
Main Contacts tips Material	Cu
Electric Diagram	SC27695
Layout Drawing	D55544

[1] To be specified in order phase.

MICROELETTRICA

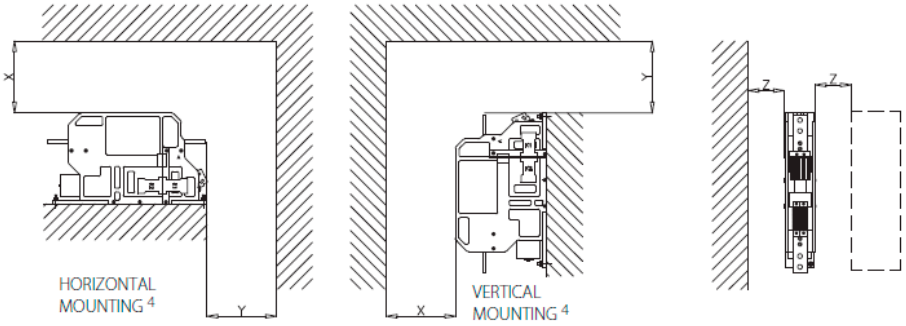
Description

Disconnector switch, electric motor control with 2 auxiliary relay, 2 positions, bi-stable.
Reference standard IEC 60077-2(2017) , IEC 61992 and IEC 60947.

Electrical Characteristics	
Rated Operational Voltage [V_{ac} / V_{dc}]	3600
Max Operational Voltage [V_{ac} / V_{dc}]	4000
Conventional Free Air Thermal Current [A] at 40°C [2]	800
Conventional Free Air Thermal Current [A] at 75°C [2]	720
Main circuit resistance [μΩ][3]	200
DC-Rated Operational Current (τ=15ms) [A]	0
DC-Maximum Breaking Capacity (τ=5ms) [A]	0.2
AC-Maximum Breaking Capacity (cosϕ=0,8; 50Hz) [A]	0.5
Short Circuit Withstand Capacity for 5ms [kA]	90
Component Category / Operational Frequency Class	A4 / C3
Insulation Characteristics	
Rated Insulation Voltage [V]	4000
Rated impulse voltage [kV]	30
Rated Power Frequency Withstand Voltage (50Hz; 60")	
Between HV to LV circuit + Earth [V]	10000
Between open contacts [V]	7900
Between each pole (if more than 1) [V]	10000
Between LV circuit to Earth [V]	1500
Minimum clearance distance Between open contacts [mm]	32
Minimum clarence distance between power circuit to earth [mm]	40
Minimum creapage distance [mm]	50
Compartive Tracking Index (CTI) (IEC 60112) [V]	600

[2] Device cabled according IEC 60947 [3] In new and clean condition for power loss calculation only

[4] Other mounting positions not allowed, reduced distances should be approved by Microelettrica.



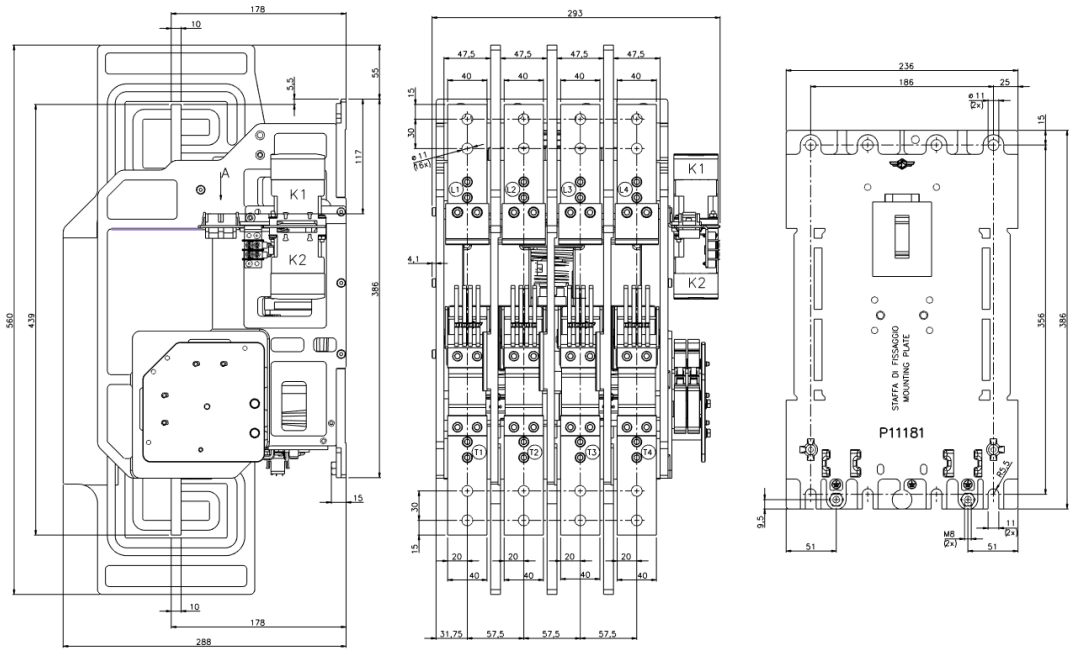
Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
4000V	Metal Parts	50	50	30
	Plastic Parts	30	30	30

Mechanical Characteristics	
Mechanical Endurance (cycles)	$2.5x10^5$
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	21
Control Circuit	
Control Voltage Range	$0.7U_c \div 1.25U_c$
Power Consumption (U_c and T = 20°C) at Pick Up - when Holding [W]	35 - 0
Mechanical Operation Time (U_c and T = 20°C) when Closing - Opening [ms]	3000 - 3000
Mechanical Operation Time (in the worst condition) [ms]	6000 - 6000
Electrical Connections	Burndy SMS 24R3
Auxiliary Contacts	
Rated Operational Voltage [V_{ac} / V_{dc}]	250
Conventional Free Air Thermal Current [A] at 40° C	10
Tips material Rated Current [A]	Silver Alloy (Optional: Golden Plated)
Minimum Let-Through Current at 24/72/110V_{dc} [mA][5]	20(10)/15(7.5)/10(5)
Electrical Connections	Burndy SMS 24R3
Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	Tx (-40°C ÷ +75°C)[6]
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3/OV3
Max Altitude without Performance Derating [m]	2000

[5] Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load.

For different working condiotions, please contact Microelettrica.

[6] 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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