

STANDARD FAMILY CODE LTHM08013XP00

Туре	LTHMD 800
Number of Poles	3 CO
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating [V ^{dc}]	24 - 36 - 72 - 110 ¹
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Foodback Signal Scope	AUX C (a0, b0)
Feedback Signal Scope	AUX D (a1, b1)
Block Type	PBX
Main Contacts tips Material	Cu
Electric Diagram	SC27690
Layout Drawing	D55235

 $^{^{\}scriptscriptstyle 1}\,\text{To}$ be specified in order phase.



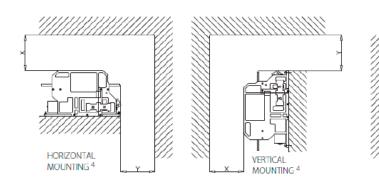
Description

3 poles Disconnector change over 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 [Vac / Vdc]	3600	
Max Operational Voltage [Vac / Vdc]	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 $[\mu\Omega]^3$	60	
DC-Rated Operational Current (τ=15ms) [A]	0	
DC-Maximum Breaking Capacity (τ=5ms) [A]	0.2	
AC-Maximum Breaking Capacity (cosφ=0,8) [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	
	4000 PD3/OV3	
Rated Insulation Voltage [V]		
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1)	PD3/OV3	
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV]	PD3/OV3	
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60")	PD3/OV3 30	
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V]	PD3/OV3 30 10000	
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V]	PD3/OV3 30 10000 7900	
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V] Between each pole (if more than 1) [V]	PD3/OV3 30 10000 7900 10000	
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V] Between each pole (if more than 1) [V] Between LV circuit to Earth [V]	PD3/OV3 30 10000 7900 10000 1500	
Rated Insulation Voltage [V] Pollution Degree - Overvoltage Category (EN 50124-1) Rated impulse voltage [kV] Rated Power Frequency Withstand Voltage (50Hz; 60") Between HV to LV circuit + Earth [V] Between open contacts [V] Between each pole (if more than 1) [V] Between LV circuit to Earth [V] Minimum clearance distance Between open contacts [mm]	PD3/OV3 30 10000 7900 10000 1500 32	

 $^{^{2}}$ 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

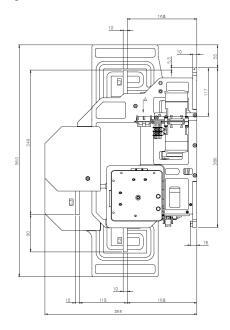


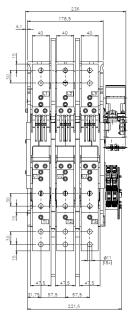
Minimum clearances [mm] from:				
Rated Operational Voltage		X	Υ	Z
4000V	Metal Parts	50	50	30
	Plastic Parts	30	30	30

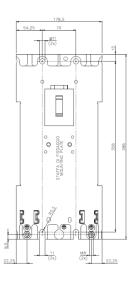
Mechanical Characteristics		
Mechanical Endurance (cycles)	2.5x10 ⁵	
Shock and Vibrations (IEC61373)	Cat. 1 - Class B	
Weight [kg]	21	
Control Circuit		
Control Voltage Range	0.7Uc ÷ 1.25Uc	
Power Consumption (Uc and $T = 20$ °C) at Pick Up - when Holding [W]	35 - 0	
Mechanical Operation Time (U_c and $T = 20^{\circ}C$) when Closing - Opening [ms]	3000 - 3000	
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	6000 - 6000	
Electrical Connections	Low voltage connector Burndy SMS 24R3	
Auxiliary Contacts		
Rated Operational Voltage [Vac / Vdc]	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	Low voltage connector Burndy SMS 24R3	
Environmental Conditions		
Stock Temperature Range	-50°C ÷ +85°C	
Operational Temperature Range	Tx (-40°C ÷ +75°C) ⁶	
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 condictions, 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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