

SWITCHES

STANDARD FAMILY CODE LTWS03002C300

Mounting Position	Vertical
Control Voltage Rating [V ^{dc}]	110
Auxiliary Contact Blocks	3 x (1 NO + 1 NC)
Block Type	Crouzet
Contact Material	Cu
Electric Diagram	SC27429
Layout Drawing	D52633

¹ To be specified in order phase.



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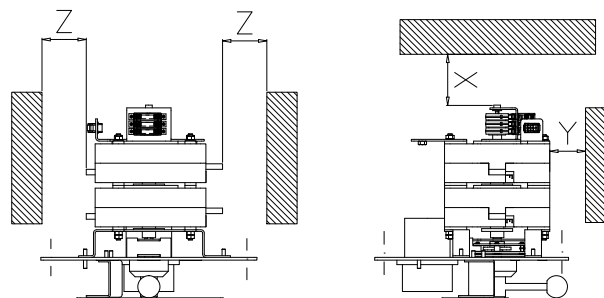
Description

Workshop switch, manually operated, 3 positions (line voltage mode, workshop supply mode, isolated mode), tristable. Reference standard IEC 60077-2.

Electrical Characteristics	
Rated Operational Voltage [V_{ac} / V_{dc}]	900
Max Operational Voltage [V_{ac} / V_{dc}]	1000
Conventional Free Air Thermal Current [A] at 75°C ²	300
Main circuit resistance [$\mu\Omega$] ³	300
DC-Rated Operational Current ($\tau=15ms$) [A]	0
DC-Maximum Breaking Capacity ($\tau=5ms$) [A]	0
AC-Maximum Breaking Capacity ($\cos\phi=0,8$) [A]	0
Short Circuit Withstand Capacity for 5ms [kA]	30
Component Category / Operational Frequency Class	A3 / C3
Insulation Characteristics	
Rated Insulation Voltage [V]	1000
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3/OV3
Rated impulse voltage [kV]	30
Rated Power Frequency Withstand Voltage (50Hz; 60")	
Between HV circuit to Earth [V]	10000
Between HV to LV circuit [V]	10000
Between open contacts [V]	7900
Between each pole (if more than 1) [V]	7900
Between LV circuit to Earth [V]	1500
Minimum clearance distance Between open contacts [mm]	32
Minimum clearance distance between power circuit to earth [mm]	40
Minimum creepage distance	50
Comparative 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



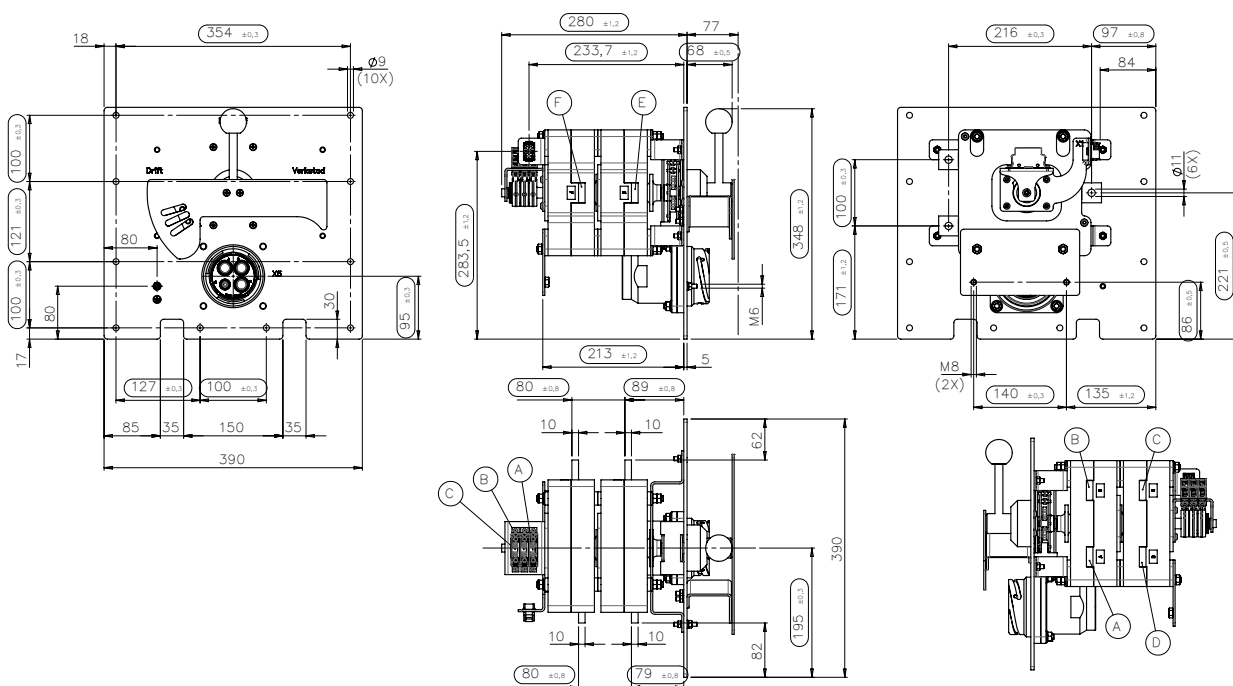
Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
4000V	Metal Parts	50	70	30
	Plastic Parts	30	30	30

Mechanical Characteristics	
Mechanical Endurance (cycles)	15 x 10 ³
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	25
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	Screw M3
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 conditions, please contact Microelettrica.

⁶ 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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