

# SWITCHES

## STANDARD FAMILY CODE N0002000P1A01

Type	N 2000
Number of Poles	1 NO
Connection between poles	None
Mounting Position	Vertical
Control Voltage Rating $U_c$ [Vdc]	110Vdc/Vac - 220Vdc/Vac <sup>1</sup>
Auxiliary Contact Blocks	5 NO + 5 NC
Block Type	B
Arc chute Material	Ceramic in plastic shells
Main Contacts tips Material	S6
Arcing Contacts tips Material	S8
Electric Diagram	TU0165/B (DC) - TU0165/C (AC)
Layout Drawing	D53362

<sup>1</sup> To be specified in order phase.



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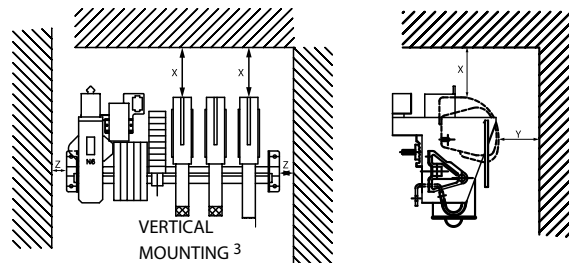
## Description

Contactors with single interruption in air, electromagnetic control by power save system (economy resistor). Typical application control of all type of motor for standard or severe duty application. Control of resistive, inductive and capacitive circuits: heating, lighting, cosfi rectification, normal stand-by.  
Reference Standard IEC 60947-4-1.

Electrical Characteristics				
Rated Operational Voltage Ue [Vac/Vdc]	220	380	440	600
Rated Insulation Voltage Ui [Vdc]	1000			
Conventional Free air thermal current Ith [ at 40°C] <sup>2</sup>	2000			
Conventional Free air thermal current Ith [ at 60°C] <sup>2</sup>	1750			
Maximum Making Capacity for 100 ms Ich [kA]	25			
Short Circuit Withstand Current for 100 ms Icw [kA]	30			
Average impedance per pole at 50 Hz [MicroOhm]	150			
Blow out circuit type	Indirect with arcing contact			
Electrical Characteristics 1NO pole (S6) for DC application				
Rated Operational Voltage [Vdc]	220	380	440	600
Maximum Breaking Capacity tau=15ms Idcmax [A]	15000	11600	10000	7350
Utilization Category according to IEC60947-4-1: DC1&DC3				
Rated Operational Power Pe [kW]	440	760	790	790
Rated Operational Current Ie [A]	2000	2000	1800	1320
Utilization Category according to IEC60947-4-1: DC5				
Rated Operational Power Pe [kW]	350	-	-	-
Rated Operational Current Ie [A]	1600	-	-	-
Electrical Characteristics 1NO pole (S6) for AC application				
Rated Operational Voltage [Vac]	220	380	440	600
Maximum Breaking Capacity cosΦ=0,5 Iacmax [A]	20000	12750	11000	8100
Utilization Category according to IEC60947-4-1: AC1&AC2&AC3				
Rated Operational Power Pe [kW] (cosΦ=0,8)	350	610	680	680
Rated Operational Current Ie [A]	2000	2000	1920	1410
Utilization Category according to IEC60947-4-1: AC4				
Rated Operational Power Pe [kW] (cosΦ=0,8)	350	550	550	550
Rated Operational Current Ie [A]	2000	1800	1550	1150

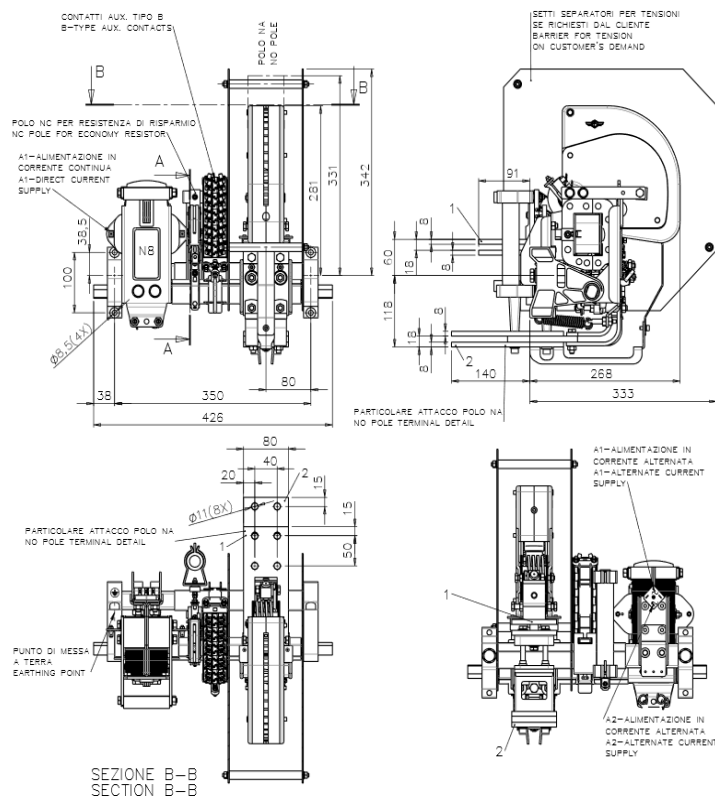
<sup>2</sup> Device cabled according IEC 60947 <sup>3</sup> Other mounting positions not allowed

Minimum clearances [mm] from:				
Rated Insulation Voltage		X	Y	Z
1000	Metal Parts	100	50	30
	Plastic Parts	50	30	20



Mechanical Characteristics	
Mechanical Endurance (cycles) <sup>4</sup>	3x10 <sup>6</sup>
Weight [kg]	31
Control Circuit	
Control Voltage Range	0.85U <sub>c</sub> ÷ 1.1U <sub>c</sub>
Power Consumption (U <sub>c</sub> and T = 20°C) at Closing - at Opening [W]	1000-50
Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms]	120-15
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	450-20
Time Constant (L/R) at Pick Up - when Holding [ms]	
Electrical Connections	Fast-On 6.35x0.8mm
Auxiliary Contacts	
Tips material	Solid Silver
Rated Operational Voltage [V <sub>ac</sub> / V <sub>dc</sub> ]	250
Rated Current [A]	10
Minimum Switching Current at 16V <sub>dc</sub> [mA] <sup>5</sup>	100
Electrical Connections	Fast-On 6.35x0.8mm
Environmental Conditions	
Stock Temperature Range	-25°C ÷ +60°C
Operational Temperature Range	-5°C ÷ +55°C
Max Altitude without Performance Derating [m]	2000

<sup>4</sup> With respect of the maintenance operations    <sup>5</sup> In clean and dry conditions



The technical specifications reported are not binding and they should be agreed in the contract.

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