

# SWITCHES

## STANDARD FAMILY CODE N000350P1B01

Type	N 350
Number of Poles	1 NC
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	Plastic Shells
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	TU0165/B (DC) - TU0165/C (AC)
Layout Drawing	D53547

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



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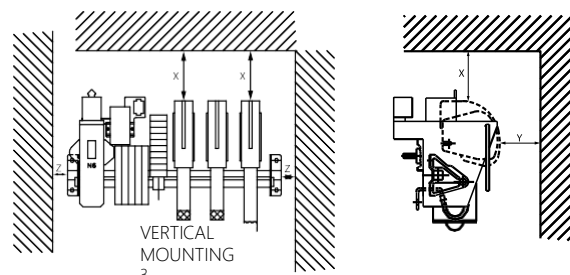
## Description

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,  $\cos\Phi$  rectification, normal stand-by. Reference Standard IEC 60947-4-1.

Electrical Characteristics				
Rated Operational Voltage $U_e$ [Vac/Vdc]	220	380	440	600
Rated Insulation Voltage $U_i$ [Vdc]	1000			
Conventional Free air thermal current $I_{th}$ [ at 40°C ] <sup>2</sup>	350			
Conventional Free air thermal current $I_{th}$ [ at 60°C ] <sup>2</sup>	300			
Maximum Making Capacity for 100 ms $I_{ch}$ [kA]	4,5			
Short Circuit Withstand Current for 100 ms $I_{cw}$ [kA]	6			
Average impedance per pole at 50 Hz [ $\mu\Omega$ ]	600			
Blow out circuit type	Direct			
Electrical Characteristics 1NC pole (S6) for DC application				
Rated Operational Voltage [Vdc]	220	380	440	600
Maximum Breaking Capacity $\tau=15ms$ $I_{dcmax}$ [A]	1750	990	850	600
Utilization Category according to IEC60947-4-1: DC1&DC3				
Max Operational Making Current [A]	640	370	320	235
Max Operational Breaking Current [A]	450	180	155	95
Electrical Characteristics 1NC pole (S6) for AC application				
Rated Operational Voltage [Vac]	220	380	440	600
Maximum Breaking Capacity $\cos\Phi=0,5$ $I_{acmax}$ [A]	2500	1450	1250	920
Utilization Category according to IEC60947-4-1: AC1&AC2&AC3				
Rated Power $P_e$ [kW]	60	60	60	60
Rated Making and breaking Current $I_e$ [A]	200	115	100	70
Utilization Category according to IEC60947-4-1: AC4				
Rated Power $P_e$ [kW]	45	45	45	45
Rated Making and breaking Current $I_e$ [A]	150	90	75	55

<sup>2</sup>Device cabled according to IEC 60947

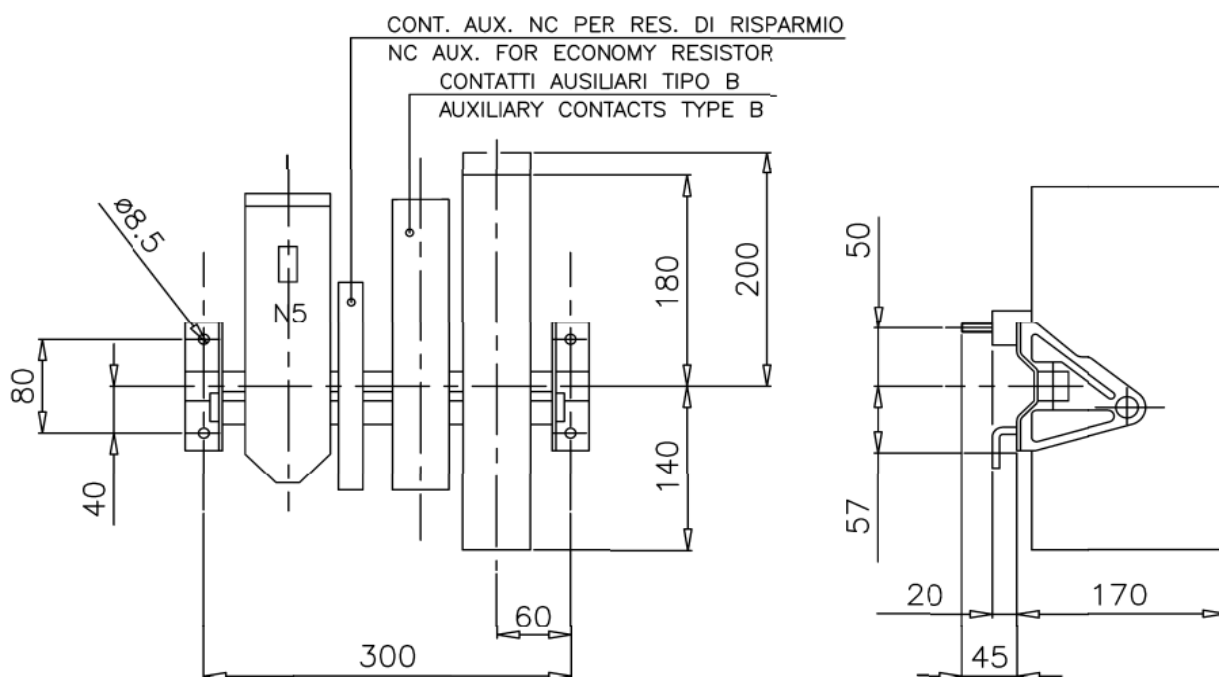
Minimum clearances [mm] from:				
Rated Insulation Voltage		X	Y	Z
1000	Metal Parts	100	50	30
	Plastic Parts	50	30	20



<sup>3</sup> OTHER MOUNTING POSITIONS NOT ALLOWED

Mechanical Characteristics	
Mechanical Endurance (cycles) <sup>4</sup>	1x10 <sup>6</sup>
Weight [kg]	3
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]	130-15
Mechanical Operation Time (U <sub>c</sub> and T = 20°C) when Closing - Opening [ms]	50-15
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	200-20
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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