

SWITCHES

STANDARD FAMILY CODE N0000190P3A01

Туре	N 190
Number of Poles	3 NO
Connection between poles	None
Mounting Position	Vertical
Control Voltage Rating Uc [Vdc]	110Vdc/Vac - 220Vdc/Vac1
Auxiliary Contact Blocks	5 NO + 5 NC
Block Type	В
Arc chute Material	Plastic Shells
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	TU0165/B (DC) - TU0165/C (AC)
Layout Drawing	D53561

¹ To be specified in order phase.



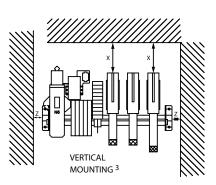
Description

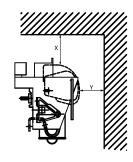
Contactor with single interruption in air, electromagnetic control by power save system (economy resistor). Typical application 3 Phase AC Motor control. Reference Standard IEC 60947-4-1.

Electrical Characteristics				
Rated Operational Voltage Ue [Vac]	220	380	600	690
Rated Insulation Voltage Ui [Vac]		1000		
Conventional Free air thermal current $Ith [at 40^{\circ}C]^2$		190		
Conventional Free air thermal current Ith [at 60° C] ²		165		
Maximum Making Capacity for 100 ms lch [kA]		3		
Short Circuit Withstand Current for 100 ms Icw [kA]		4		
Average impedence per pole at 50 Hz [MicroOhm]		400		
Blow out circuit type		Direct		
Electrical Characteristics 3NO pole (S6) for AC applica	ation			
Rated Operational Voltage Ue [Vac]	220	380	600	690
Maximum Breaking Capacity cosΦ=0,5 lacmax [A]	4318	2500	1840	1600
Utilization Category according to IEC60947-4-1: AC1&AC2&AC3				
Rated Operational Power Pe [kW]	52	90	135	135
Rated Operational Current le [A]	180	180	180	141
Utilization Category according to IEC60947-4-1: AC4				
Rated Operational Power Pe [kW]	50	85	115	115
Rated Operational Current le [A]	170	170	170	120
Exeptional Maximum Breaking Capacity @ 1000Vac cosΦ=0,5 [A]		1300		

³ Device cabled according IEC 60947 ⁴ Other mounting positions not allowed

Minimum clearances [mm] from:					
Rated Ins Voltage	ulation	х	Y	Z	
1000	Metal Parts	100	50	30	
	Plastic Parts	50	30	20	

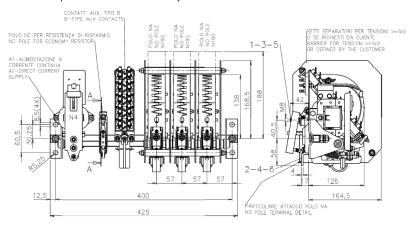


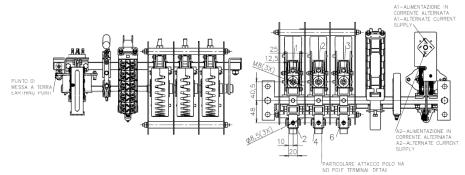


Mechanical Characteristics		
Mechanical Endurance (cycles) ⁴	1x10 ⁶	
Weight [kg]	9.8	
Control Circuit		
Control Voltage Range	0.85Uc ÷ 1.1Uc	
Power Consumption (Uc and $T = 20^{\circ}$ C) at Closing - at Opening [W]	130-15	
Mechanical Operation Time (Uc and T = 20° C) when Closing - Opening [ms]	50-15	
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	200-20	
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 [Vac / Vdc]	250	
Rated Current [A]	10	
Minimum Switching Current at 16Vdc [mA] ⁵	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	

⁴With respect of the maintenance operations

⁵ In clean and dry conditions





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

