

## STANDARD FAMILY CODE N0000650P2A01

Туре	N 650
Number of Poles	2 NO
Connection between poles	Series <sup>1</sup>
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	Ceramic in plastic shells
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	TU0165/B (DC) - TU0165/C (AC)
Layout Drawing	D53386

<sup>&</sup>lt;sup>1</sup> Series bar connections available under request



<sup>&</sup>lt;sup>2</sup> To be specified in order phase.

## Description

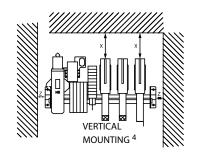
Contactor with single interruption in air, electromagnetic control by power save system (economy resistor). Typical application DC Motor control. Reference Standard IEC 60947-4-1.

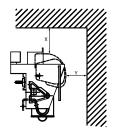
Electrical Characteristics					
Rated Operational Voltage Ue [Vdc]	220	440	660	750	1000
Rated Insulation Voltage Ui [Vdc]	1000				
Conventional Free air thermal current Ith [ at 40°C] <sup>3</sup>	650				
Conventional Free air thermal current Ith [ at 60°C] <sup>3</sup>	570				
Maximum Making Capacity for 100 ms Ich [kA]	10				
Short Circuit Withstand Current for 100 ms lcw [kA]	12				
Average impedence per pole at 50 Hz [MicroOhm]	300				
Blow out circuit type			Direct		

Electrical Characteristics 2NO poles series connected (S6) for DC application					
Rated Operational Voltage [Vdc]	220	440	660	750	1000
Maximum Breaking Capacity tau=15ms Idcmax [A]		6000	5000	4400	3300
Utilization Category according to IEC60947-4-1: DC3					
Rated Operational Power Pe [kW]	143	286	429	487,5	600
Rated Operational Current le [A]	650	650	650	650	600
Utilization Category according to IEC60947-4-1: DC5					
Rated Operational Power Pe [kW]	143	286	413	413	0
Rated Operational Current le [A]	650	650	625	550	0

 $<sup>^{3}</sup>$  Device cabled according IEC 60947  $^{4}$  Other mounting positions not allowed

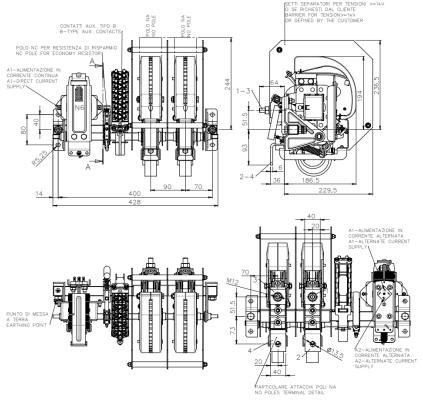
Minimum clearances [mm] from:				
Rated Insulation Voltage		X	Υ	Z
1000	Metal Parts	100	50	30
	Plastic Parts	50	30	20





Mechanical Characteristics			
Mechanical Endurance (cycles) <sup>4</sup>	1x10 <sup>6</sup>		
Weight [kg]	23		
Control Circuit			
Control Voltage Range	0.85Uc ÷ 1.1Uc		
Power Consumption (Uc and T = 20°C) at Closing - at Opening [W]	300-20		
Mechanical Operation Time (Uc and $T = 20^{\circ}C$ ) when Closing - Opening [ms]	70-20		
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	350-20		
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 16V <sub>dc</sub> [mA] <sup>6</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		

 $<sup>{}^5</sup>$ With respect of the maintenance operations  ${}^6$  In clean and dry conditions



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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