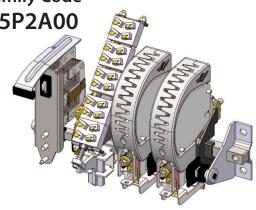
Switches

Standard Family Code N0000125P2A00



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.

Type	N 125
Number of Poles	2 NO
Connection between poles	Series ¹
Mounting Position	Vertical
Control Voltage Rating Uc [Vdc]	110Vdc/Vac - 220Vdc/Vac ²
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	D50647

 $^{^{1}\,\}mathsf{Series}\,\mathsf{bar}\,\mathsf{connections}\,\mathsf{available}\,\mathsf{under}\,\mathsf{request}$

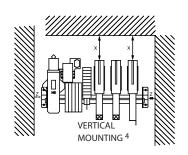
² To be specified in order phase.

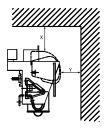
Electrical Characteristics					
Rated Operational Voltage Ue [Vdc]	220	440	660	750	1000
Rated Insulation Voltage Ui [Vdc]	1000				
Conventional Free air thermal current Ith [at 40°C] ³	125				
Conventional Free air thermal current Ith [at 60°C] ³	110				
Maximum Making Capacity for 100 ms Ich [kA]	2,5				
Short Circuit Withstand Current for 100 ms lcw [kA]	3				
Average impedence per pole at 50 Hz [MicroOhm]	1200				
Blow out circuit type	Direct				

Electrical Characteristics 2NO poles series connected (S6) for DC application					
Rated Operational Voltage [Vdc]		440	660	750	1000
Maximum Breaking Capacity tau=15ms Idcmax [A]		1500	1000	880	660
Utilization Category according to IEC60947-4-1: DC3					
Max Operational Power Pe [kW]	110	110	110	110	110
Max Operational Making and breaking Current le [A]		250	167	147	110
Utilization Category according to IEC60947-4-1: DC5		,			
Max Operational Power Pe [kW]		71	71	71	0
Max Operational Making and breaking Current le [A]	324	162	108	95	0
2	-	•	•	•	

³ Device cabled according IEC 60947

Minimum clearances [mm] from:				
Rated 0	Х	Υ	Z	
1000	Metal Parts	100	50	30
	Plastic Parts	50	30	20





Switches

Mechanical Characteristics	
Mechanical Endurance (cycles) ⁵	3x10 ⁶
Weight [kg]	4.5

Control Circuit	
Control Voltage Range	0.85Uc ÷ 1.1Uc
Power Consumption (Uc and T = 20°C) at Closing - at Opening [W]	130 - 15
Mechanical Operation Time (U _c 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 / Vac]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{dc} [mA] ⁶	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

 $^{^{5}\,\}mathrm{With}$ respect of the maintenance operations

⁶ In clean and dry conditions

