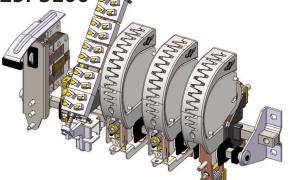
Switches

Standard Family Code N0000125P3E00



escription

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

Туре	N 125
Number of Poles	2 NO + 1 NC
Connection between poles	Series for NO pole 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 (NO Pole) - S4 (NC Pole)
Arcing Contacts tips Material	-
Electric Diagram	TU0165/B (DC) - TU0165/C (AC)
Layout Drawing	D51539

¹ Series bar connections available under request ² To be specified in order phase.

Electrical Characteristics					
Rated Operational Voltage Ue [Vdc]	220 440 660 750 1000			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				
Blow out circuit type	Direct				

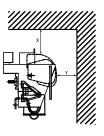
Rated Operational Voltage [Vdc] 220 440 660 750 1000 Maximum Breaking Capacity tau=15ms ldcmax [A] 2500 1500 1000 880 660 Utilization Category according to IEC60947-4-1: DC3
Utilization Category according to IEC60947-4-1: DC3 Max Operational Power Pe [kW] 110 110 110 110 110 Max Operational Making and breaking Current le [A] 500 250 167 147 110 Utilization Category according to IEC60947-4-1: DC5 71 71 71 71 0
Max Operational Power Pe [kW] 110 10 10<
Max Operational Making and breaking Current le [A] 500 250 167 147 110 Utilization Category according to IEC60947-4-1: DC5
Utilization Category according to IEC60947-4-1: DC5 Max Operational Power Pe [kW] 71 71 71 71 71 71
Max Operational Power Pe [kW] 71 71 71 71 0
Max Operational Making and breaking Current le [A]324162108950
Maximum Making Capacity for 100 ms Ich [kA] 2,5
Short Circuit Withstand Current for 100 ms Icw [kA] 3
Average impedence per pole at 50 Hz [MicroOhm] 1200

Electrical Characteristics 1NC (S4) for DC application					
Rated Operational Voltage [Vdc]	220	440	660	750	1000
Maximum Breaking Capacity tau=15ms Idcmax [A]	625	350	250	0	0
Max Operational Making Current [A]	250	250 125 83 73 55			55
Max Operational Breaking Current [A]	125 58 42 0			0	
Maximum Making Capacity for 100 ms Ich [kA]	1.8				
Short Circuit Withstand Current for 100 ms Icw [kA]		2.5			
Average impedence per pole at 50 Hz [MicroOhm]		1500			

³ Device cabled according IEC 60947

Minimum clearances [mm] from:					
Rated C	Operational Voltage	Х	Y	Ζ	
1000	Metal Parts	100	50	30	
1000	Plastic Parts	50	30	20	

VERTICAL MOUNTING 4



⁴ OTHER MOUNTING POSITIONS NOT ALLOWED

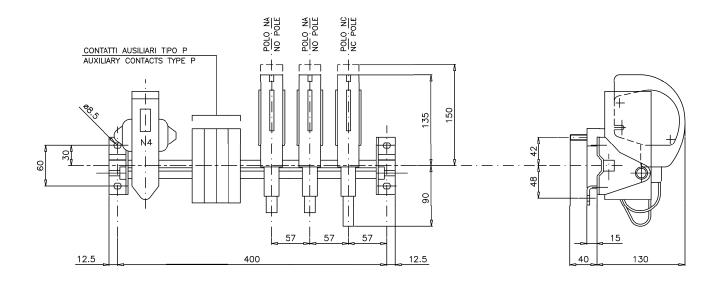


Standard Family Code N0000125P3E00

Mechanical Characteristics	
Mechanical Endurance (cycles) ⁵	3x10 ⁶
Weight [kg]	5.8
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 / Vdc]	250
Rated Current [A]	10
Minimum Switching Current at 16 V _{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 With respect of the maintenance operations

⁶ In clean and dry conditions





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