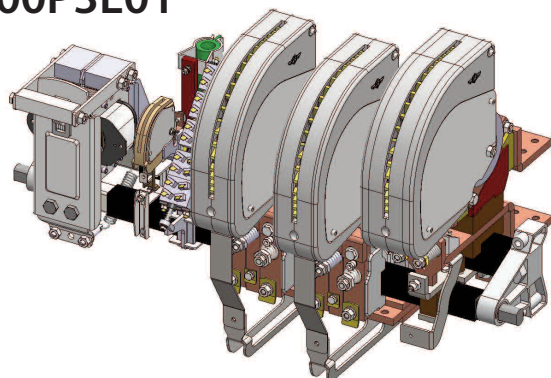


Switches

Standard Family Code N0002000P3E01



Type	N 2000
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	B
Arc chute Material	Ceramic in plastic shells
Main Contacts tips Material	S6 (NO Pole) - S4 (NC Pole)
Arcing Contacts tips Material	S8 (No Pole)
Electric Diagram	TU0165/B (DC) - TU0165/C (AC)
Layout Drawing	D53552

Description

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.

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
Rated Insulation Voltage Ui [Vdc]	1000				
Conventional Free air thermal current Ith [at 40°C] ³	2000				
Conventional Free air thermal current Ith [at 60°C] ³	1750				
Blow out circuit type	Indirect with arcing contact				

Electrical Characteristics 2NO poles series connected (S6) for DC application

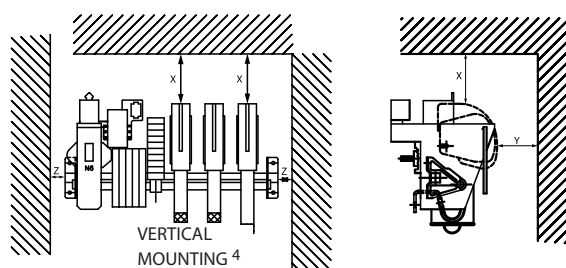
Rated Operational Voltage [Vdc]	220	440	660	750	1000
Maximum Breaking Capacity tau=15ms Idcmax [A]	30000	20000	15000	13200	9900
Utilization Category according to IEC60947-4-1: DC3					
Max Operational Power Pe [kW]	1800	1800	1800	1800	1800
Max Operational Making and breaking Current Ie [A]	8182	4091	2727	2400	1800
Utilization Category according to IEC60947-4-1: DC5					
Max Operational Power Pe [kW]	1200	1200	1200	1200	0
Max Operational Making and breaking Current Ie [A]	5455	2727	1818	1600	0
Maximum Making Capacity for 100 ms Ich [kA]	25				
Short Circuit Withstand Current for 100 ms Icw [kA]	30				
Average impedance per pole at 50 Hz [MicroOhm]	150				

Electrical Characteristics 1NC (S4) for DC application application (1250A Rating)

Rated Operational Voltage [Vdc]	220	440	660	750	1000
Maximum Breaking Capacity tau=15ms Idcmax [A]	5000	3000	2000	0	0
Max Operational Making Current [A]	2500	1250	830	730	550
Max Operational Breaking Current [A]	1550	625	330	0	0
Maximum Making Capacity for 100 ms Ich [kA]	10				
Short Circuit Withstand Current for 100 ms Icw [kA]	13				
Average impedance per pole at 50 Hz [MicroOhm]	450				

³ Device cabled according IEC 60947

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



4 OTHER MOUNTING POSITIONS NOT ALLOWED

Switches

Standard Family Code
N002000P3E01

Mechanical Characteristics

Mechanical Endurance (cycles) ⁵	3x10 ⁶
Weight [kg]	74

Control Circuit

Control Voltage Range	0.85U _c ÷ 1.1U _c
Power Consumption (U _c and T = 20°C) at Closing - at Opening [W]	1000 - 50
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	120 - 15
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	450 - 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 [V _{ac} / V _{dc}]	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

⁵With respect of the maintenance operations

⁶In clean and dry conditions

