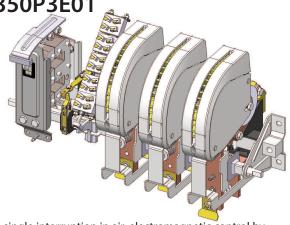
Switches

Standard Family Code N0000350P3E01

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.

Туре	N 350
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	Ceramic in 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	D53398

 $^{^{1}}$ Series bar connections available under request

² To be specified in order phase.

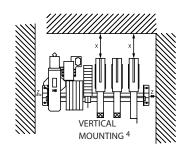
Electrical Characteristics					
Rated Operational Voltage Ue [Vdc]	220	440	660	750	1000
Rated Insulation Voltage Ui [Vdc]	1000				
Conventional Free air thermal current Ith [at 40°C] ³	350				
Conventional Free air thermal current Ith [at 60°C] ³	300				
Blow out circuit type	Direct				

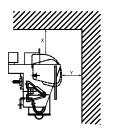
Electrical Characteristics 2NO poles series connected (S6) for DC application						
Rated Operational Voltage [Vdc]		440	660	750	1000	
Maximum Breaking Capacity tau=15ms ldcmax [A]	5000	3500	3000	2640	1980	
Utilization Category according to IEC60947-4-1: DC3	1: DC3					
Max Operational Power Pe [kW]	320	320	320	320	320	1
Max Operational Making and breaking Current le [A]	1455 727 485 427 320					
Utilization Category according to IEC60947-4-1: DC5						
Max Operational Power Pe [kW]	203	203	203	203	0	
Max Operational Making and breaking Current le [A]	920 460 307 270 0			0		
Maximum Making Capacity for 100 ms lch [kA] 6						
Short Circuit Withstand Current for 100 ms lcw [kA]	8					
Average impedence per pole at 50 Hz [MicroOhm]	400					

Electrical Characteristics 1NC (S4) for DC application						
Rated Operational Voltage [Vdc]	220	440	660	750	1000	
Maximum Breaking Capacity tau=15ms Idcmax [A]	1750	850	600	0	0	
Max Operational Making Current [A]	727	364	242	213	160	
Max Operational Breaking Current [A] 509 177 97			0	0		
Maximum Making Capacity for 100 ms Ich [kA]	4.5					
Short Circuit Withstand Current for 100 ms lcw [kA]	6					
Average impedence per pole at 50 Hz [MicroOhm]	600					

 $^{^{3}}$ Device cabled according IEC 60947

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









Switches

Mechanical Characteristics	
Mechanical Endurance (cycles) ⁵	3x10 ⁶
Weight [kg]	20

Control Circuit	
Control Voltage Range	0.85Uc ÷ 1.1Uc
Power Consumption (Uc and T = 20°C) at Closing - at Holding [W]	180 - 15
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	60 - 20
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	250 - 25
Time Constant (L/R) at Pick Up - when Holding [ms]	20 - 10
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts	
Tips material	Solid Silver
Rated Operational Voltage [Vsc / 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

