Flush mounting

Product group data T3-...

General

Standards and specifications			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL, Switch-disconnector to IEC/EN 60947-3 Load-break switch to IEC/EN 60947-3
Lifespan, mechanical	Operations	× 10^6	0,5
Maximum operating frequency	Operations/h		3000
Climatic proofing			Damp heat, constant, to IEC 60 068 Part -2--3 Damp heat, cyclical, to IEC 60068 Part -2--30
Ambient temperature			
Open		C	-25/50
enclosed		C	-25/40
Mounting position			As required
Mechanical shock resistance (shock duration 20 ms)		g	15

Contacts

Rated operational voltage	U_e	V AC	690
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current			
open	I_u	A	32
Enclosed	I_u	A	32
Load-carrying capacity in intermittent operation, Class 12			
AB 25 % DF		× I_e	2
AB 40 % DF		× I_e	1,6
AB 60 % DF		× I_e	1,3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	I_{cw}	A_{eff}	650
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between the contacts		V AC	440
Protection against direct contact			Finger and back-of-hand proof to IEC 100
Switching angles		°	90 60 45 30
Contact units			11
Double-break contacts			max. 22
Current heat loss per contact at I_e		W	1,1

Terminal capacity

Solid or stranded		mm^2	1 × (1 – 6) 2 × (1 – 6)
Terminal capacities flexible with ferrule DIN 46228		mm^2	1 × (0,75 – 4) 2 × (0,75 – 4)
Terminal screw			M4
Tightening torque		Nm	1,6

Switching capacity

AC			
Rated making capacity *cos* φ = 0.35		A	320
Rated breaking capacity Motor load switches cos φ = 0,35			
230 V		A	260
400 V		A	260
500 V		A	240
690 V		A	170
Rated operational current Load-break switch AC-21A 440 V	I_e	A	32
AC-3 Motor load switches, for operational switching			
230 V	*P*	kW	1,8
230 V Star-delta	*P*	kW	11
400 V	*P*	kW	3,6
400 V Star-delta	*P*	kW	18,5
500 V	*P*	kW	15
500 V Star-delta	*P*	kW	22
690 V	*P*	kW	0
690 V Star-delta	*P*	kW	22

AC-23A Motor load switches (main switches maintenance switches)			
230 V	*P*	kW	7,5
400 V	*P*	kW	13
500 V	*P*	kW	15
AC-15 Control switches Rated operational current			
230 V	I_e	A	10
400 V	I_e	A	6
500 V	I_e	A	4
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I_e	A	25
Voltage per contact pair in series		V	60
DC-21A			
Rated operational current 240 V	I_e	A	1
240 V Contacts		Quantity	1
DC-23A, Motor load switches L/R = 15 ms			
24 V			
Rated operational current	I_e	A	25
Contacts		Quantity	1
48 V			
Rated operational current	I_e	A	25
Contacts		Quantity	2
60 V			
Rated operational current	I_e	A	25
Contacts		Quantity	3
120 V			
Rated operational current	I_e	A	12
Contacts		Quantity	3
240 V			
Rated operational current	I_e	A	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	I_e	A	20
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H_F	$< 10^{-5}$, < 1 fault in 100000 operations

Notes

For rated operational voltage: Isolating characteristics to IEC/EN 60947 for construction type .../SVB up to 500 VAC.

For solid, stranded or flexible terminal capacities:

T0(3), (6), (8)...: Max. 2 cross-section sizes difference admissible when using 2 conductors

T5(B)-...: Max. 1 cross-section size difference admissible when using 2 conductors

T3.../I... >12 g

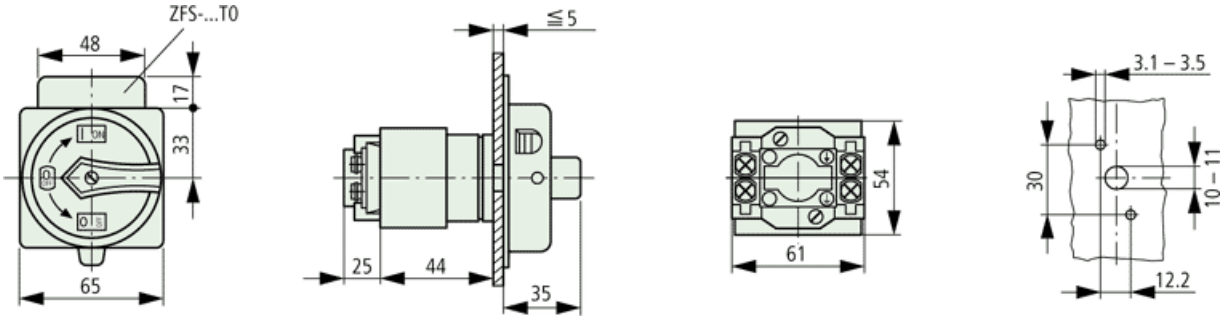
T0(3): Isolating characteristics to IEC/EN 60947 for construction type.../SVB Rated operational voltage U_e bis 500 V AC

Dimensions

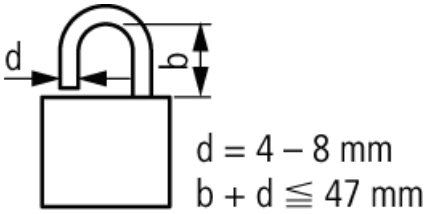
Depth of one contact unit: 11.5 mm

≦ 3 Padlocks

Dimensions



Depth of one contact unit: 11.5 mm



≦ 3 Padlocks