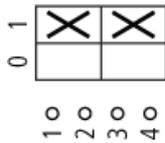


Type: **T3-1-102/I2/SVB**  
 Article No.: **207198**



Ordering information			
Design			Surface mounting
Description			Without auxiliary contacts
Main conducting paths No. of poles		M	2
Auxiliary contacts		N/O	0
Auxiliary contacts		B	0
Max. three-phase motor rating (per set of 3 contacts) 50–60 Hz AC–3 400/415 V 50–60 Hz	<i>P</i>	kW	22
Rated uninterrupted current	<i>I<sub>u</sub></i>	A	32
Note for table header			According to IEC/EN 60204–1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position

**Contact sequence**



General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947–3 Load-break switches to IEC/EN 60947–3

Lifespan, mechanical	Operations	$\times 10^6$	0,5
Maximum operating frequency	Operations/h		3000
Climatic proofing			Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclical, to IEC 60068–2–30
Ambient temperature			
Open		°C	–25/50
Enclosed		°C	–25/40
Mounting position			As required
Documentation			Main catalogue HPL
Mechanical shock resistance (shock duration 20 ms)		g	> 15
<b>Contacts</b>			
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		$\times I_e$	2
AB 40 % DF		$\times I_e$	1,6
AB 60 % DF		$\times I_e$	1,3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	$I_{cw}$	$A_{rms}$	650
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between the contacts		V AC	440
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
<b>Terminal capacities</b>			
Solid or stranded		mm <sup>2</sup>	1 × (1 – 6)

			2 × (1 – 6)
Flexible with ferrule to DIN 46228		mm <sup>2</sup>	1 × (0.75 – 4) 2 × (0.75 – 4)
Terminal screw			M4
Tightening torque		Nm	1.6
<b>Switching capacity</b>			
<b>AC</b>			
Rated making capacity $\cos \phi = 0.35$		A	320
Rated breaking capacity, motor load switch $\cos \phi = 0.35$			
230 V		A	260
400 V		A	260
500 V		A	240
690 V		A	170
Rated operational current 440 V load-break switch AC-21A	$I_e$	A	32
<b>AC-3 motor load switch motor rating</b>			
230 V	$P$	kW	3
230 V Star-delta	$P$	kW	11
400 V	$P$	kW	5,5
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
<b>AC-23A Motor load switches (main switches maintenance switches)</b>			
230 V	$P$	kW	7,5
400 V	$P$	kW	22
500 V	$P$	kW	15
<b>Rated operational current control switch AC-15</b>			
230 V	$I_e$	A	10
400 V	$I_e$	A	6
500 V	$I_e$	A	4
<b>DC</b>			
<b>DC-1, Load-break switches L/R = 1 ms</b>			

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

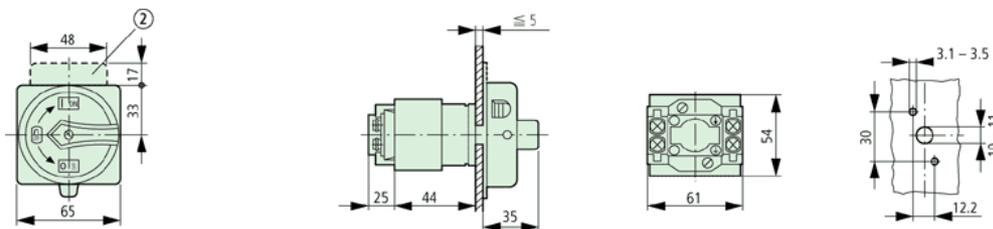
			<p>For mechanical shock resistance: T3.../I... &gt;12g  Applies to T0(3).../SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated operational voltage up to 500 V AC  Applies to rated uninterrupted current <math>I_u</math> of the contact: with T5-4-8344/I5 max. 95 A  For terminal capacity solid, stranded and flexible:  T0(3), (6), (8)...: Maximum of</p>
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			<p>2 cross-section sizes difference admissible between 2 conductors  T5(B)-...: Maximum of 1 cross-section size difference admissible between 2 conductors  For type T8-3-8342/... the following applies: switching angle = 90° and flat connection = 1 busbar 25 × 5 or 2 busbars 20 × 3</p>
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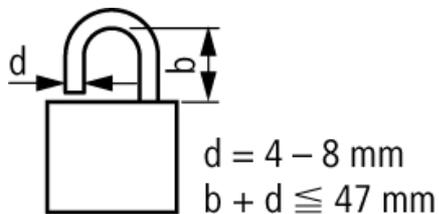
**Dimensions**

			not included
			3 padlocks
Explanation			<p>For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging)  The blocked rotor current of the motor should not exceed the rated current of the switch for AC-21A to ensure a reasonable device lifespan.</p>

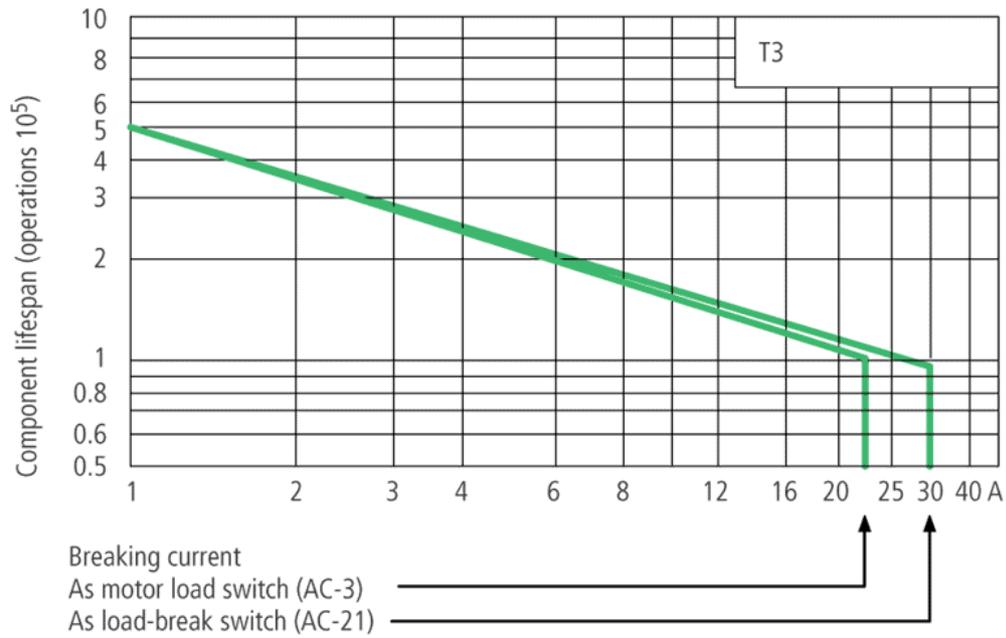
**Dimensions**



**Dimensions**



**Characteristic curve**



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