

ON-OFF-SWITCHES IVS (UK)

Part no. T0-1-15421/IVS







With black thumb-grip and grey front plate

Front IP 30

Short-circuit rating

Fuse

elivery programme	
Design	Service distribution board mounting
Contact sequence	2 X
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Front plate no.	2 0 1
	FS 429
Pole	1
General	
Standards	IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL

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	× 10 ⁶	1
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		°C	
Open		°C	- 25 50
Enclosed		°C	- 25 40
Mounting position			As required
Mechanical shock resistance to IEC 60068-2-27	Half-sinusoidal shock 20 ms	g	> 15
Contacts			
Rated operational voltage	U_{e}	V AC	690
Rated impulse withstand voltage	<i>U</i> _{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current	I _u	А	
open	I _u	А	20
Enclosed	<i>I</i> _u	Α	20
Load rating with intermittent operation, class 12			
AB 25 % DF		× I _e	2
AB 40 % DF		× I _e	1.6
AB 60 % DF		× I _e	1.3

A gG/gL

20

Rated short-time withstand current (1 s current)	1	A _{rms}	320
Safe isolation to VDE 0106 Part 101 and Part 101/A1	I _{cw}	rms	320
between the contacts		V AC	440
Switching angles		o AC	90
Switching angles			60
			45 30
Contact units			11
Double-break contacts			max. 22
Current heat loss per contact at I _e		W	0.6
Terminal capacities			
Solid or stranded		mm ²	1 × (1 – 2.5)
Florible with formula to DIN 40000		2	2 × (1 – 2.5)
Flexible with ferrule to DIN 46228		mm ²	$1 \times (0.75 - 1.5)$ $2 \times (0.75 - 1.5)$
Terminal screw			M3.5
Tightening torque		Nm	1
Switching capacity			
AC		× U _s	
Rated making capacity $\cos \phi = 0.35$		Α	130
Rated breaking capacity, motor load switch $\cos\phi$ = 0.35		Α	
230 V		Α	100
400 V		Α	110
500 V		Α	80
690 V		Α	60
Rated operational current 440 V load-break switch AC-21A	I _e	Α	20
AC-23A Motor load switches (main switches maintenance switches)	P	kW	
230 V	P	kW	3.5
400 V	Р	kW	6.5
500 V	Р	kW	13
Rated operational current control switch AC-15			
230 V	I _e	Α	6
400 V	I _e	Α	4
500 V	I _e	Α	2
DC		× U _s	
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	Α	10
Voltage per contact pair in series		V	60
DC-21A	I _e	Α	
Rated operational current 240 V	I _e	Α	1
240 V Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	Α	10
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	10
Contacts		Quantity	2
60 V			
Rated operational current	l _e	Α	10
Contacts		Quantity	3
120 V			
Rated operational current	l _e	Α	5
Contacts		Quantity	3
240 V			
Rated operational current	I _e	Α	5

Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	Α	10
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

Notes For mechanical shock resistance: T3.../l...>12g
Applies to T0(3).../SVB: isolating characteristics to IEC/EN 60947 *U*for rated operational voltage up to 500 V AC

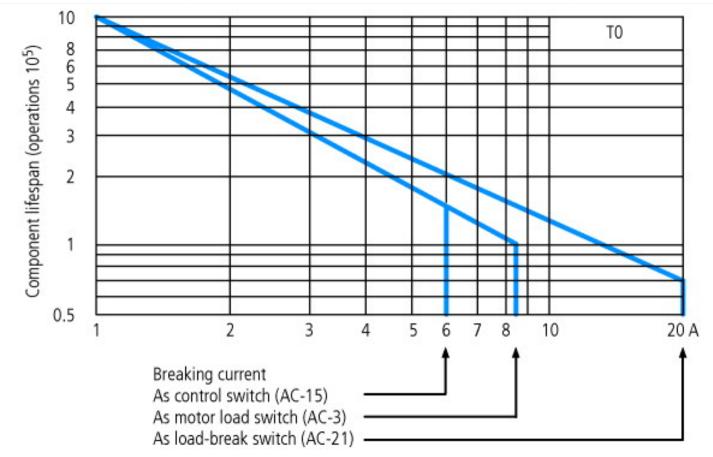
Applies to rated uninterrupted current $I_{\rm u}$ of the contact: with T5-4-8344/I5 max. 95 A

For terminal capacity solid, stranded and flexible:

TO(3), (6), (8)...: Maximum of 2 cross-section sizes difference admissible between 2 conductors

T5(B)-...: Maximum of 1 cross-section size difference admissible between 2 conductors

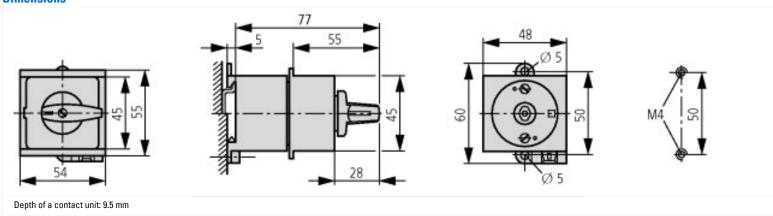
For type T8-3-8342/... the following applies: switching angle = 90° and flat connection = 1 busbar 25×5 or 2 busbars 20×3

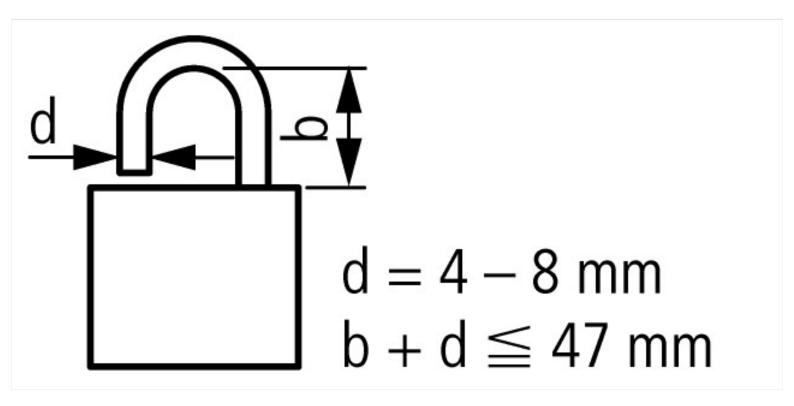


For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging)

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.

Dimensions





Additional product information (links)