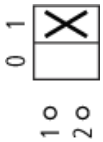
MOELLER

Type: **T0–1–8200/IVS–RT**
Article No.: **081956**
Sales text **ON–OFF–SWITCH**

Ordering information			
Design			Distribution board mounting
Description			As Emergency–Stop device
Main conducting paths			
No. of poles		M	1
Auxiliary contacts			
N/O = normally open contact		N/O	0
N/C = normally closed contact		B	0
Max. motor rating			
AC–23A 400/415 V 50–60 Hz	*P*	kW	6.5
Rated uninterrupted current	I_u	A	20

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

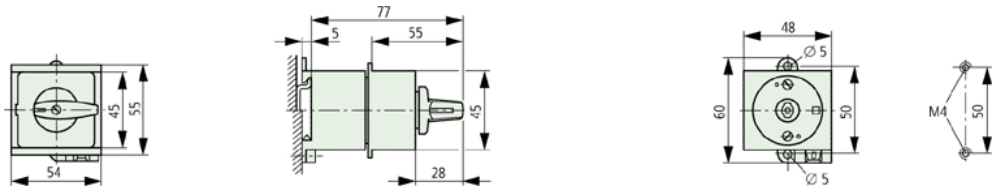
Lifespan, mechanical	Operations	× 10^6	1
Maximum operating frequency	Operations/h		3000
Climatic proofing			Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclical, to IEC 60068–2–30
Ambient temperature			
Open		°C	–25...50
Enclosed		°C	–25...40
Mounting position			As required
Mechanical shock resistance 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	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current			
open	I_u	A	20
Enclosed	I_u	A	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
Short–circuit rating			
Fuse		A gG/gL	20
Rated short–time withstand current (1 s current)	I_{cw}	A_{rms}	320
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	0,6
Terminal capacities			
Solid or stranded		mm^2	1 × (1 – 2.5) 2 × (1 – 2.5)

Flexible with ferrule to DIN 46228		mm^2	1 × (0.75 – 1.5) 2 × (0.75 – 1.5)
Terminal screw			M3.5
Tightening torque		Nm	1
Switching capacity			
AC			
Rated making capacity cos = 0.35		A	130
Rated breaking capacity, motor load switch cos = 0.35			
230 V		A	100
400 V		A	110
500 V		A	80
690 V		A	60
Rated operational current 440 V load–break switch AC–21A	I_e	A	20
AC–3 motor load switch motor rating			
230 V	*P*	kW	1
230 V Star–delta	*P*	kW	4
400 V	*P*	kW	1,3
400 V Star–delta	*P*	kW	5,5
500 V	*P*	kW	5,5
500 V Star–delta	*P*	kW	7,5
690 V	*P*	kW	4
690 V Star–delta	*P*	kW	5,5
AC–23A Motor load switches (main switches maintenance switches)			
230 V	*P*	kW	3,5
400 V	*P*	kW	6,5
500 V	*P*	kW	13
Rated operational current control switch AC–15			
230 V	I_e	A	6
400 V	I_e	A	4
500 V	I_e	A	2
DC			
DC–1, Load–break switches L/R = 1 ms			
Rated operational current	I_e	A	10

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 switch L/R = 15 ms			
24 V			
Rated operational current	I_e	A	10
Contacts		Quantity	1
48 V			
Rated operational current	I_e	A	10
Contacts		Quantity	2
60 V			
Rated operational current	I_e	A	10
Contacts		Quantity	3
120 V			
Rated operational current	I_e	A	5
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	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.../I... >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_u of the contact: with T5–4–8344/I5 max. 95 A For terminal capacity solid, stranded and flexible: T0(3), (6), (8)...: Maximum of 2 cross–section sizes

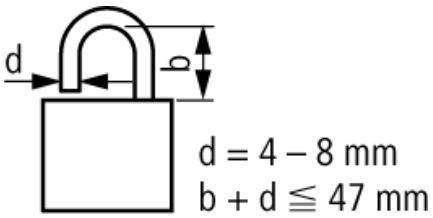
			difference admissible between 2 conductors T5(B)–...: Maximum of 1 cross–section size difference admissible between 2 conductors For type T8–3–8342/... the following applies: switching angle = 90° and flat connection = 1 busbar 25 × 5 or 2 busbars 20 × 3

Dimensions

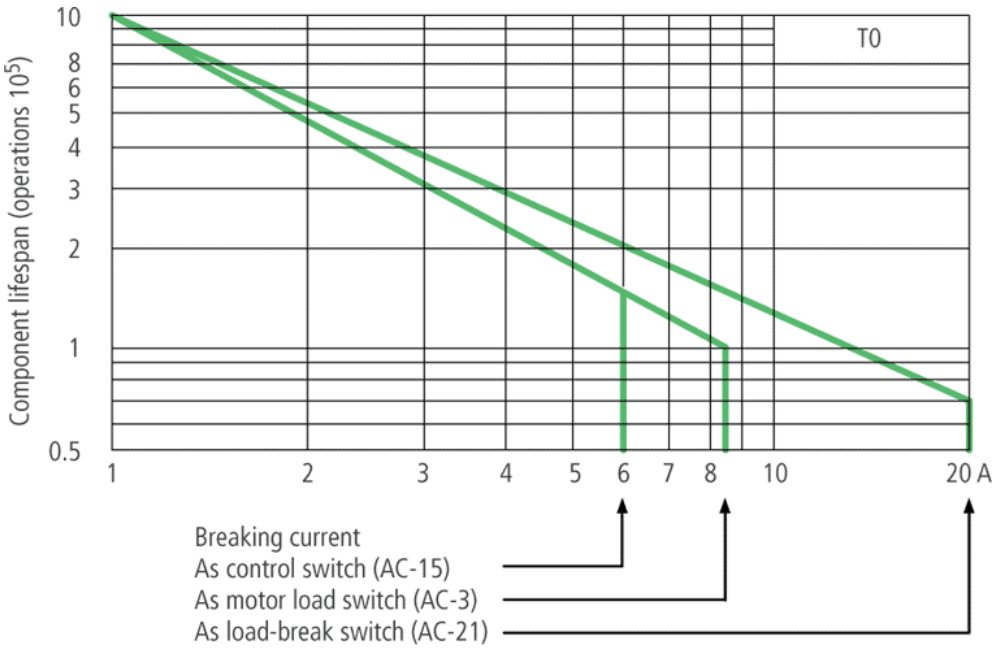


Depth of a contact unit: 9.5 mm

Dimensions



Characteristic curve



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.

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