



Main switch Surface mounting



Powering Business Worldwide™

Part no. T0-2-8900/11/SVB
Article no. 207151

Catalog No. CT02-8900-11CRQ

Delivery programme

Product range			Switch-disconnectors T, P
Basic function			Main switches Maintenance switches Manual override switches
Part group reference			T0
Protection type			IP65
			totally insulated
Emergency stop			as emergency switching off/emergency stop function With red rotary handle and yellow locking ring
Locking facility			Lockable in the 0 (Off) position without auxiliary contacts
Contacts			Neutral pole
Contact sequence			
Front plate no.			 FS 908
Main conducting paths			
main circuits poles		M	3 + N
Auxiliary contacts		N/O	0
		B	0
Max. motor rating			
AC-23A			
400/415 V 50-60 Hz	P	kW	6.5

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	x 10 ⁶	0.4
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	U _{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current	I _u	A	
Rated uninterrupted current	I _u	A	20
open	I _u	A	20
Enclosed	I _u	A	20
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x 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 EN 61140			
between the contacts		V AC	440
Protection against direct contact			Finger and back-of-hand proof to IEC 536
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

Switching capacity

AC		x U _s	
cos φ rated making capacity as per IEC 60947-3		A	130
Bemessungsausschaltvermögen cos φ nach IEC 60947-3		A	
230 V		A	100
400/415 V		A	110
500 V		A	80
690 V		A	60
440 V	I _e	A	20
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	3
230 V Star-delta	P	kW	4
380 V 400 V	P	kW	4
400 V Star-delta	P	kW	5.5

500 V	P	kW	5.5
500 V Star-delta	P	kW	7.5
660 V 690 V	P	kW	4
690 V Star-delta	P	kW	5.5
Bemessungsbetriebsleistung AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	3.5
400 V	P	kW	6.5
500 V	P	kW	7.5
Rated operational current control switch			
220 V 230 V 240 V	I _e	A	6
380 V 400 V 415 V	I _e	A	4
500 V	I _e	A	2
DC		x U _s	
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	I _e	A	
Rated operational current 240 V	I _e	A	1
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

Terminal capacities

Solid or stranded		mm ²	1 x (1 - 2.5) 2 x (1 - 2.5)
Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
Terminal screw			M3.5
Tightening torque		Nm	1
Notes			Isolating characteristics as specified in IEC/EN 60947 for rated operating voltage U _e of up to 500 VAC The following applies for solid, multiwire, and flexible terminal capacities: If 2 conductors are being used, a max. difference of 2 cross-section categories is permissible

Technical data ETIM 5.0

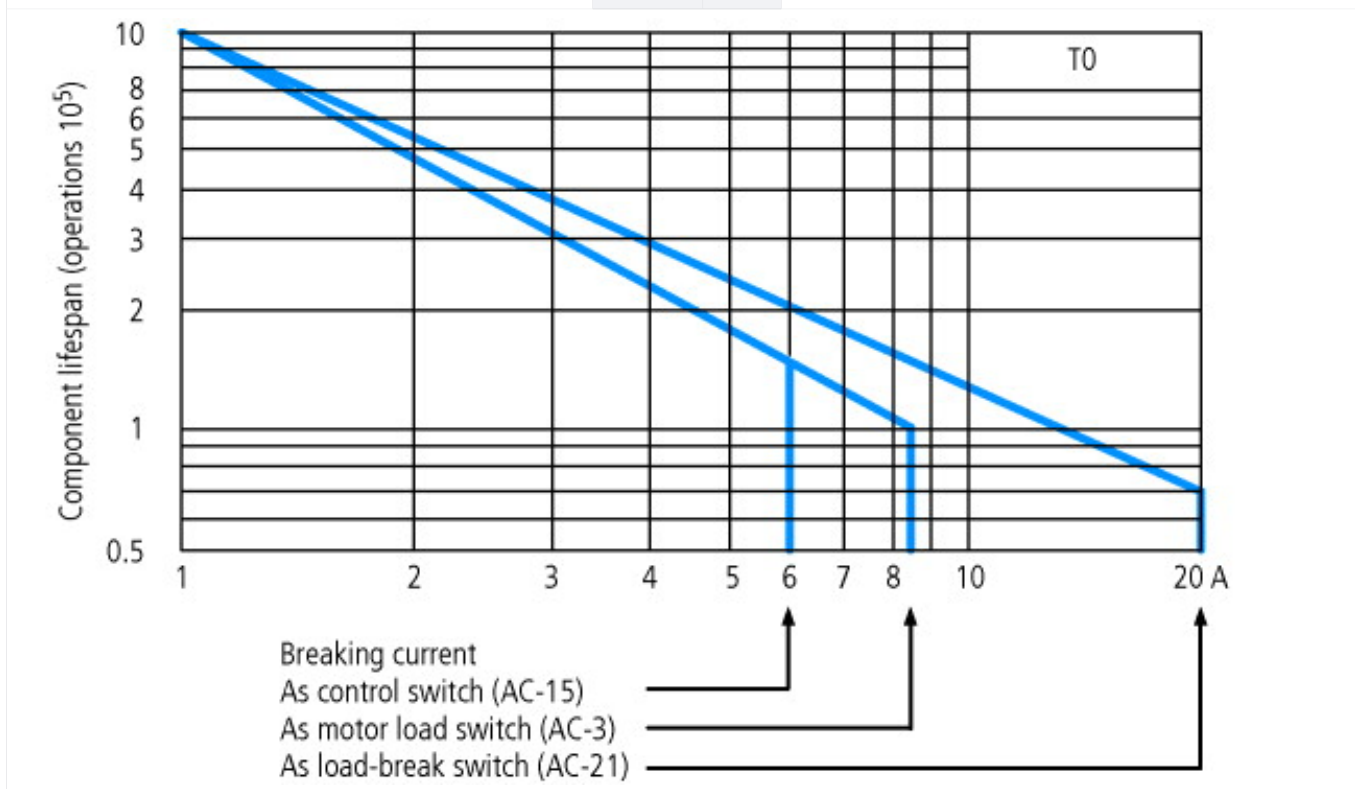
Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss8-27-37-14-03 [AKF060009])

Version as switch disconnector compact			No
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			Yes
Max. rated operation voltage Ue AC		V	690
Rated permanent current Iu		A	20
Rated operation power AC-3, 400 V		kW	4
Rated operation power at AC-23, 400 V		kW	6.5
Conditioned rated short-circuit current Iq		kA	0
Number of poles			4
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			No
Device construction			Complete device in housing
Suitable for ground mounting			Yes
Suitable for front mounting			No
Suitable for front mounting center			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Type of control element			-
Interlockable			Yes
Connection type main current circuit			Screw connection
Degree of protection (IP), front side			IP65

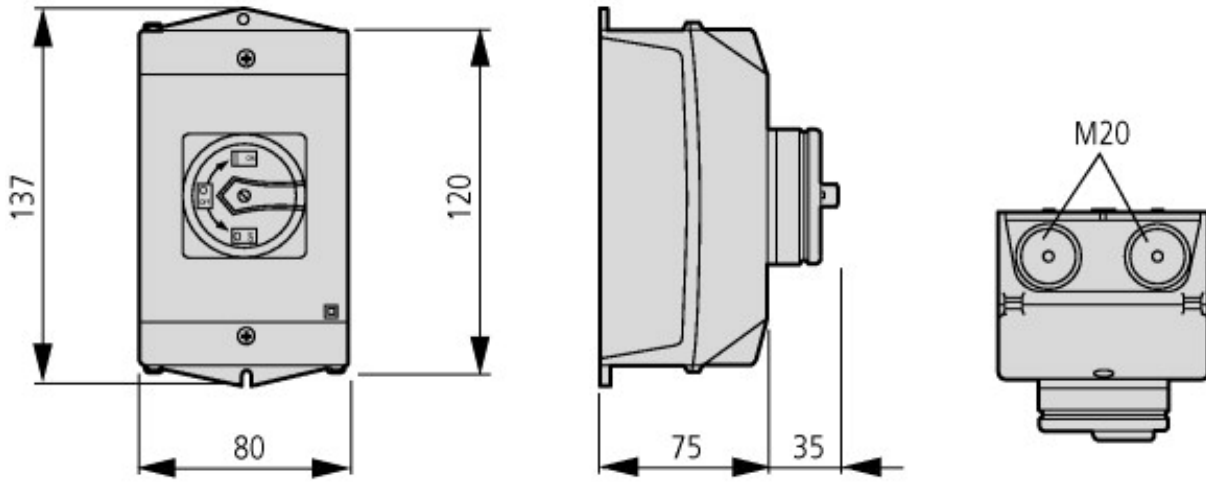
Characteristics

Characteristic curves



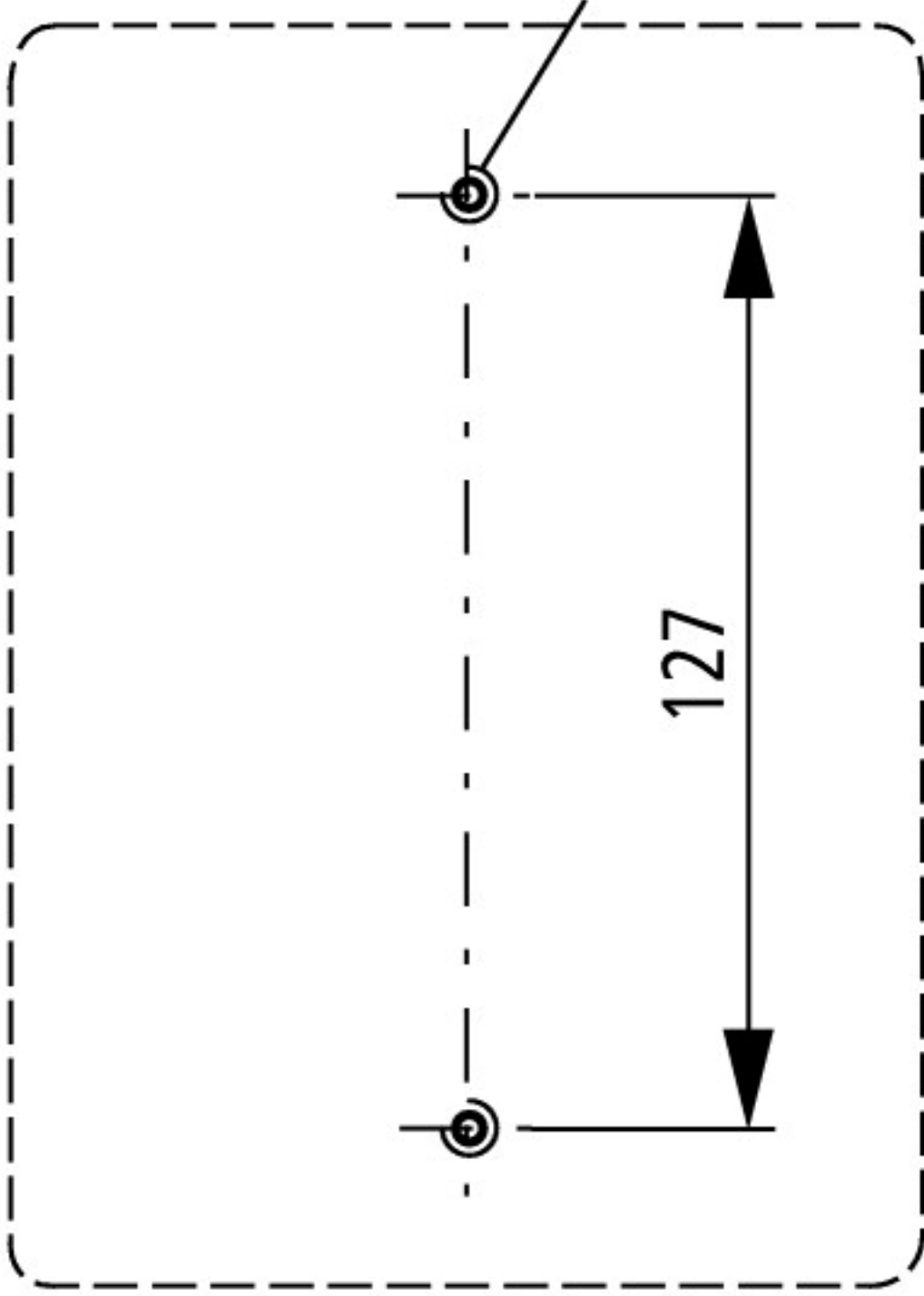
For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging)
The blocked rotor current of the motor should not exceed the rated current of the switch for AC-21A to ensure a reasonable device lifespan.

Dimensions

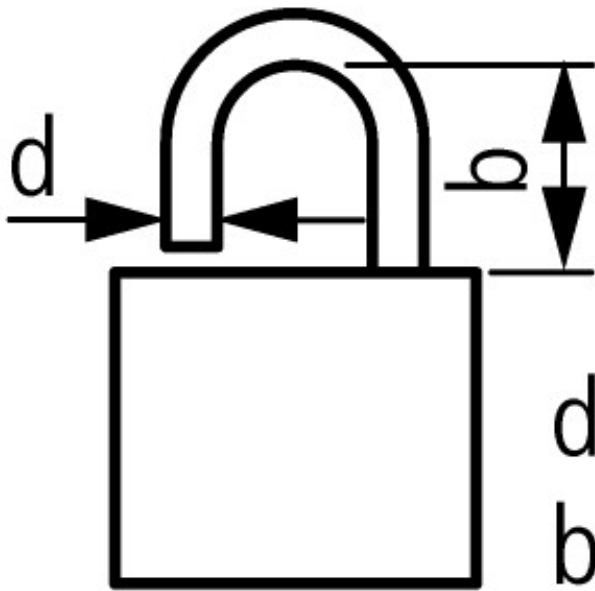


Depth of one contact unit: 9.5 mm

M4




Diameter of drilled hole Bottom



$$d = 4 - 8 \text{ mm}$$

$$b + d \leq 47 \text{ mm}$$

 3 Padlocks

Additional product information (links)

IL03801007Z (AWA1150-1687) Cam switch: Surface mounting enclosure

IL03801007Z (AWA1150-1687) Cam
switch: Surface mounting enclosure

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801007Z2013_02.pdf

<http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87>