

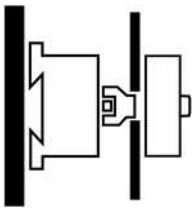
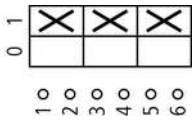
Main switchRear mounting

Part no. T0-2-1/V/SVB-SW

Article no. 045992

Front IP65

Delivery programme

Product range			Switch-disconnectors
Basic function			Main switches Maintenance switches Manual override switches
Part group reference			T0
Design			Rear mounting
			
Protection type			Front IP65
Emergency stop			without emergency switching off/emergency stop function
			With black rotary handle and locking ring
Locking facility			Lockable in the 0 (Off) position
			without auxiliary contacts
Contact sequence			
Front plate no.			
Main conducting paths			
No. of poles		M	3
Auxiliary contacts			
		N/O	0
		B	0
Max. motor rating			
AC-23A			
400/415 V 50-60 Hz			
400 V	P	kW	6.5
Rated uninterrupted current	I_u	A	20

Approvals

Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL listed, CSA certified
Specially designed for NA	Yes, in combination with "+NA" (105864)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

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	0.5
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		°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	
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 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 x (1 - 2.5) 2 x (1 - 2.5)
Flexible with ferrules to DIN 46228		mm^2	
Flexible with ferrule		mm^2	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
Terminal screw			M3.5
Tightening torque		Nm	1

Switching capacity

AC		x U_s	
Rated making capacity cos φ = 0.35		A	130
Rated breaking capacity, motor load switch cos φ = 0.35		A	
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

Rating, AC-3 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
AC-23A Motor load switches (main switches maintenance switches)	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 AC-15			
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
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

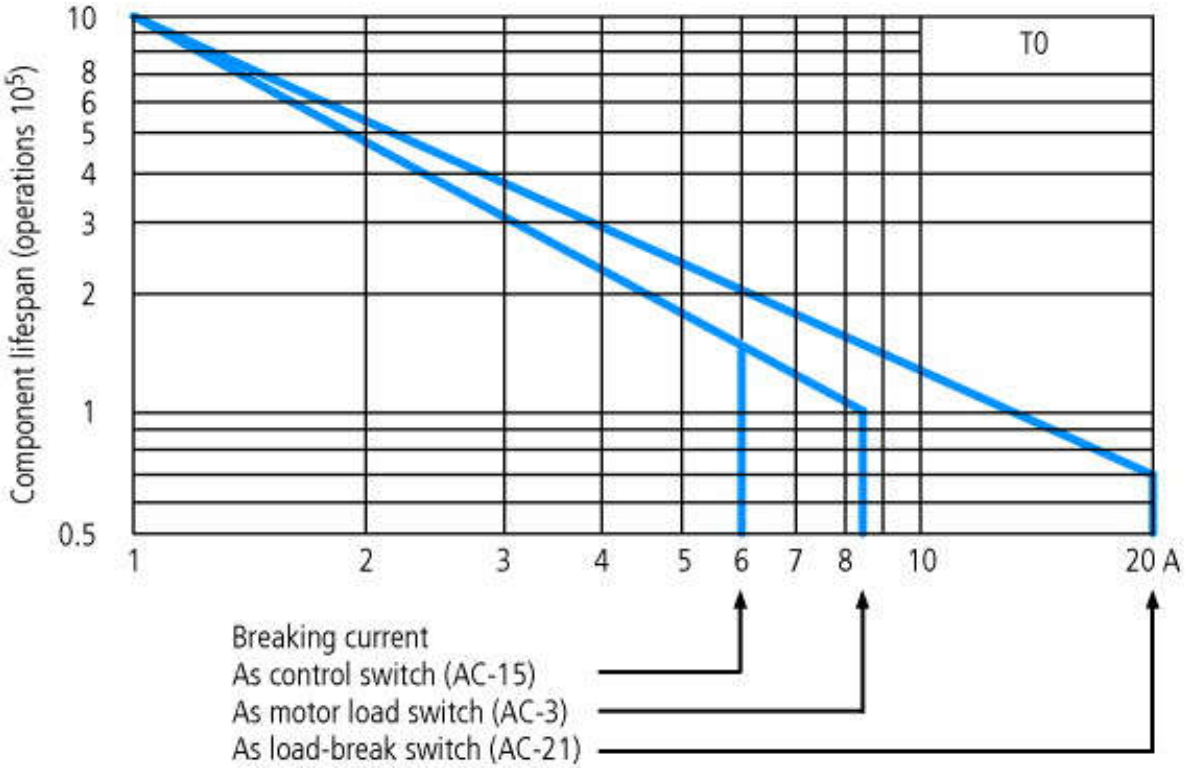
Notes Isolating characteristics as specified in IEC/EN 60947 for rated operating voltage U_e of up to 500 VAC
The following applies for solid, multiwire, and flexible terminal capacities:
If 2 conductors are being used, a max. difference of 2 cross-section categories is permissible

Technical data ETIM 4.0

Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as normally closed contact			0
Rated permanent current Iu		A	20
Number of poles			3
Conditioned rated short-circuit current Iq		kA	0

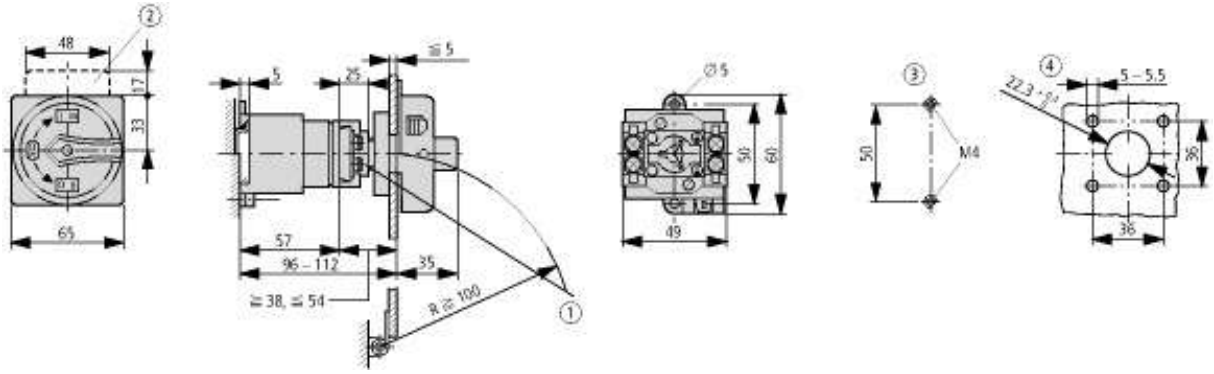
Degree of protection (IP), front side		IP55
Number of auxiliary contacts as change-over contact		0
Interlockable		YES
Motor drive integrated		No
Connection type main current circuit		Screw connection
Version as emergency stop installation		No
Type of control element		Door coupling rotary drive
Version as main switch		YES
Version as switch disconnector compact		No
Version as safety switch		No
Version as maintenance-/service switch		YES
Rated operation power at AC-23, 400V	kWh	6.5
Rated operation power AC-3, 400 V	kWh	4
Suitable for ground mounting		No
Suitable for front mounting		No
Suitable for front mounting center		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Max. rated operation voltage Ue AC	V	690
Motor drive optional		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique

Characteristics



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



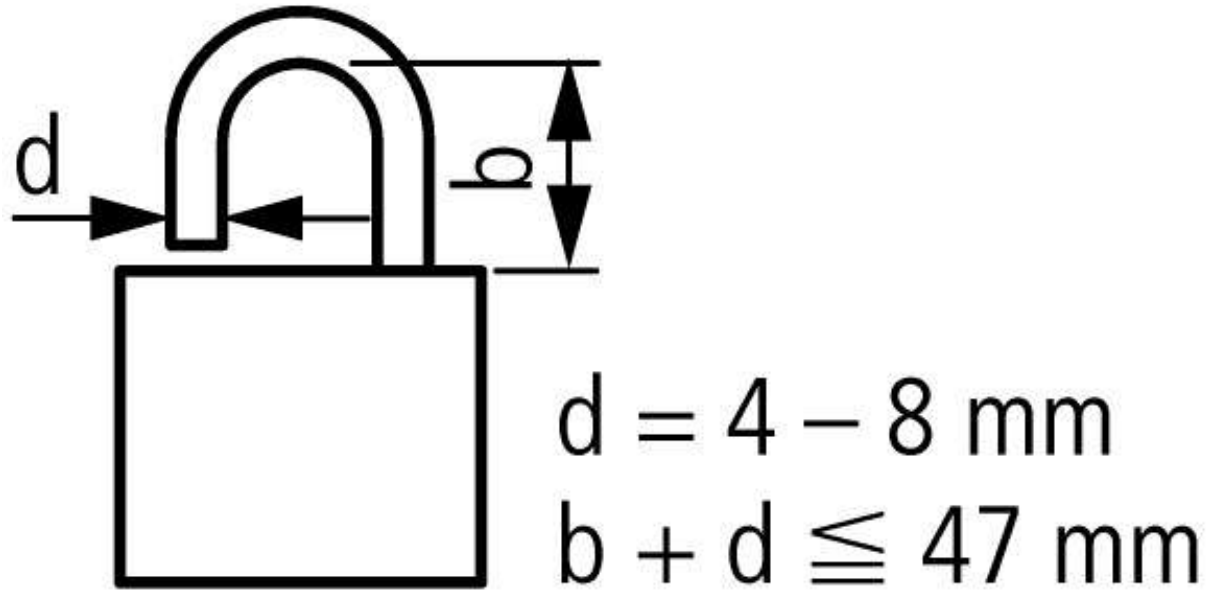
① Extension with ZVV-T0 + ZAV-T0 possible, max. 4 x 25 = 100 mm

② Label mount not included as standard

③ Drilling dimensions base

④ Drilling dimensions door

One contact unit depth: 9.5 mm



≦ 3 padlocks

Additional product information (links)

IL03801021Z (AWA1150-0587) Cam switch: Rear mounting	
IL03801021Z (AWA1150-0587) Cam switch: Rear mounting	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801021Z2011_06.pdf
http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87	
http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=40	

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