

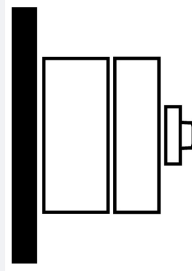
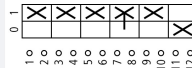
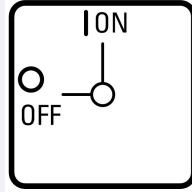




Main switch, 3-pole + N + 1S + 10.20 A, controlled stop function, 90°, lockable in the 0 (Off) position, surface mounting, hard knockout version, with mounting plate screen

Part no. T0-3-15680/12H/MBS/SVB-SW
Article no. 182432

Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			T0
Stop Function			STOP function With black rotary handle and locking ring
Notes			hard knockout version with assembly sheet screen
Number of poles			3 pole + N
Auxiliary contacts			
		N/O	1
		N/C	1
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			IP65
Design			totally insulated surface mounting 
Contact sequence			
Switching angle		°	90
Function			
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	5.5
Rated uninterrupted current	I _u	A	20
Number of contact units		contact unit(s)	3

Technical data

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature			
Enclosed		°C	-20 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof

Contacts

Mechanical variables			
Number of poles			3 pole + N
Auxiliary contacts			
		N/O	1
		N/C	1
Electrical characteristics			
Rated operational voltage	U_e	V AC	690
Rated uninterrupted current	I_u	A	20
Note on rated uninterrupted current I_u			Rated uninterrupted current I_u is specified for max. cross-section.
Load rating with 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	20
Rated short-time withstand current (1 s current)	I_{cw}	A_{rms}	320
Note on rated short-time withstand current I_{cw}			Current for a time of 1 second
Rated conditional short-circuit current	I_q	kA	6

Switching capacity

$\cos \varphi$ rated making capacity as per IEC 60947-3		A	130
Rated breaking capacity $\cos \varphi$ to IEC 60947-3		A	
230 V		A	100
400/415 V		A	110
500 V		A	80
690 V		A	60
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I_e		W	0.6
Current heat loss per auxiliary circuit at I_e (AC-15/230 V)		CO	0.6
Lifespan, mechanical	Operations	$\times 10^6$	> 0.4
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	3
230 V Star-delta	P	kW	5.5
400 V 415 V	P	kW	5.5
400 V Star-delta	P	kW	7.5
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
Rated operational current motor load switch			
230 V	I_e	A	11.5
230 V star-delta	I_e	A	20
400V 415 V	I_e	A	11.5

400 V star-delta	I _e	A	20
500 V	I _e	A	9
500 V star-delta	I _e	A	15.6
690 V	I _e	A	4.9
690 V star-delta	I _e	A	8.5
AC-21A			
Rated operational current switch			
440 V	I _e	A	20
AC-23A			
Motor rating AC-23A, 50 - 60 Hz			
230 V	P	kW	3
400 V 415 V	P	kW	5.5
500 V	P	kW	7.5
690 V	P	kW	5.5
Rated operational current motor load switch			
230 V	I _e	A	13.3
400 V 415 V	I _e	A	13.3
500 V	I _e	A	13.3
690 V	I _e	A	7.6
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			
	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 - 2.5) 2 x (0.75 - 2.5)
Terminal screw			M3.5
Max. tightening torque		Nm	1

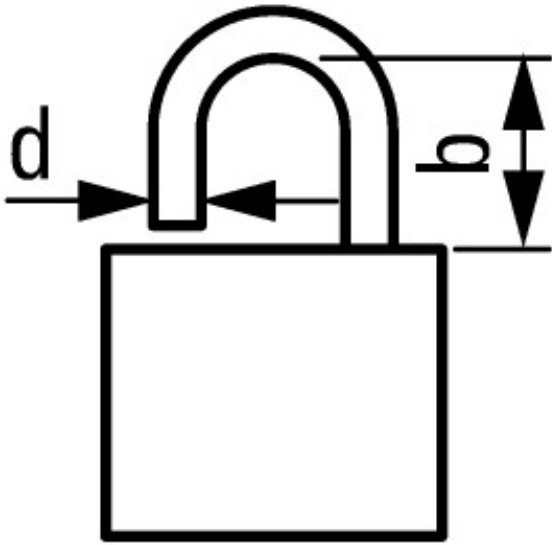
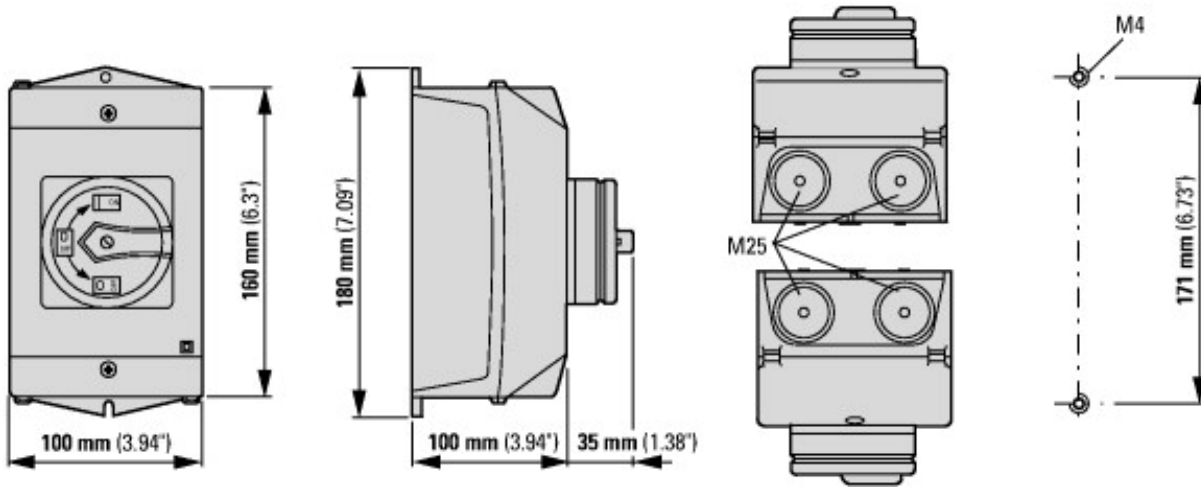
Technical safety parameters:

Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Terminal capacity			
Terminal screw			M3.5

Technical data ETIM 6.0

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@ss8.1-27-37-14-03 [AKF060010])			
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Max. rated operation voltage U _e AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current I _u		A	20
Rated permanent current at AC-21, 400 V		A	20
Rated operation power at AC-3, 400 V		kW	5,5
Rated short-time withstand current I _{cw}		kA	0,32
Rated operation power at AC-23, 400 V		kW	5,5
Switching power at 400 V		kW	5,5
Conditioned rated short-circuit current I _q		kA	6
Number of poles			4
Number of auxiliary contacts as normally closed contact			1
Number of auxiliary contacts as normally open contact			1
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 4-hole			No
Suitable for front mounting center			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Colour control element			Black
Type of control element			Door coupling rotary drive
Interlockable			Yes
Type of electrical connection of main circuit			Screw connection
Degree of protection (IP), front side			IP65

Dimensions



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

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

$$d = 0.16 - 0.31''$$

$$b + d \leq 1.85''$$

3 padlocks

Additional product information (links)

IL03801008Z (AWA1150-1688) Cam switches: surface mounting enclosure

IL03801008Z (AWA1150-1688) Cam switches: surface mounting enclosure ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801008Z2016_07.pdf

IL03801013Z (AWA1150-2249) Sheet screen mounting

IL03801013Z (AWA1150-2249) Sheet screen mounting ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801013Z2014_07.pdf

Technical overview cam switch, switch-disconnector <http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2>

System overview cam switch T <http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4>

System overview switch-disconnector P <http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6>

Key to part numbers Cam switch <http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8>

Key to part numbers Switch-disconnector <http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8>

Switches for ATEX <http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html>