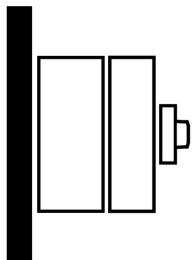
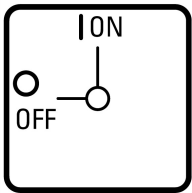




Main switch, T6, 160 A, surface mounting, 6 contact unit(s), 6 pole, 1 N/O, 1 N/C, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position

Part no. T6-160-6/I45/SVB-SW/HI11
Catalog No. 201447

Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			T6
Stop Function			STOP function
			With black rotary handle and locking ring
Information about equipment supplied			Enclosure without flanges with K95/1N/BR. FL4 gland plate insert... order separately, see CI insulated enclosure -> accessories
Number of poles			6 pole
Auxiliary contacts			
		N/O	1
		N/C	1
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			IP65
			totally insulated
Design			surface mounting
			
Contact sequence			
Switching angle		°	90
Design number			160
Function			
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	55
Rated uninterrupted current	I _u	A	160
Note on rated uninterrupted current I _u			Rated uninterrupted current I _u is specified for max. cross-section.
Number of contact units		contact unit(s)	6

Technical data

General

Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204
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Climatic proofing			Switch-disconnector according to IEC/EN 60947-3 Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Enclosed		°C	-25 - +40
Overtoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	8000
Mounting position			As required

Contacts

Mechanical variables			
Number of poles			6 pole
Auxiliary contacts			
		N/O	1
		N/C	1
Electrical characteristics			
Rated operational voltage	U_e	V AC	690
Rated uninterrupted current	I_u	A	160
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	160
Rated short-time withstand current (1 s current)	I_{cw}	A_{rms}	3000
Note on rated short-time withstand current I_{cw}			Current for a time of 1 second
Rated conditional short-circuit current	I_q	kA	30

Switching capacity

cos ϕ rated making capacity as per IEC 60947-3		A	1600
Rated breaking capacity cos ϕ to IEC 60947-3		A	
230 V		A	1280
400/415 V		A	900
500 V		A	880
690 V		A	340
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I_e		W	11
Current heat loss per auxiliary circuit at I_e (AC-15/230 V)		CO	0.2
Lifespan, mechanical	Operations	$\times 10^6$	> 0.1
Maximum operating frequency	Operations/h		50
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	30
230 V Star-delta	P	kW	30
400 V 415 V	P	kW	45
400 V Star-delta	P	kW	45
500 V	P	kW	55
500 V Star-delta	P	kW	55
690 V	P	kW	37
690 V Star-delta	P	kW	37
Rated operational current motor load switch			
230 V	I_e	A	103
230 V star-delta	I_e	A	103
400V 415 V	I_e	A	85

400 V star-delta	I _e	A	85
500 V	I _e	A	78
500 V star-delta	I _e	A	78
690 V	I _e	A	42
690 V star-delta	I _e	A	42
AC-21A			
Rated operational current switch			
440 V	I _e	A	160
AC-23A			
Motor rating AC-23A, 50 - 60 Hz			
230 V	P	kW	30
400 V 415 V	P	kW	55
500 V	P	kW	75
690 V	P	kW	37
Rated operational current motor load switch			
230 V	I _e	A	103
400 V 415 V	I _e	A	105
500 V	I _e	A	106
690 V	I _e	A	42
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	A	125
Voltage per contact pair in series		V	42
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	A	125
Contacts		Quantity	1
48 V			
Rated operational current	I _e	A	125
Contacts		Quantity	2
60 V			
Rated operational current	I _e	A	125
Contacts		Quantity	3
120 V			
Rated operational current	I _e	A	50
Contacts		Quantity	3
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	A	125
Voltage per contact pair in series		V	24
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ , < 1 failure in 100,000 switching operations

Terminal capacities

Solid or stranded		mm ²	1 x 70 2 x 35
Flexible with ferrules to DIN 46228		mm ²	1 x 50 2 x 25
Copper strip	Number of segments x width x thickness	mm	1 x 13 x 3 2 x 13 x 1.5
Terminal screw			M5, Inbus
Tightening torque for terminal screw		Nm	4.5

Technical safety parameters:

Notes			B10 _d values as per EN ISO 13849-1, table C1
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Rating data for approved types

Terminal capacity			
Terminal screw			M5, Inbus

Tightening torque	lb-in	39.8
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Design verification as per IEC/EN 61439

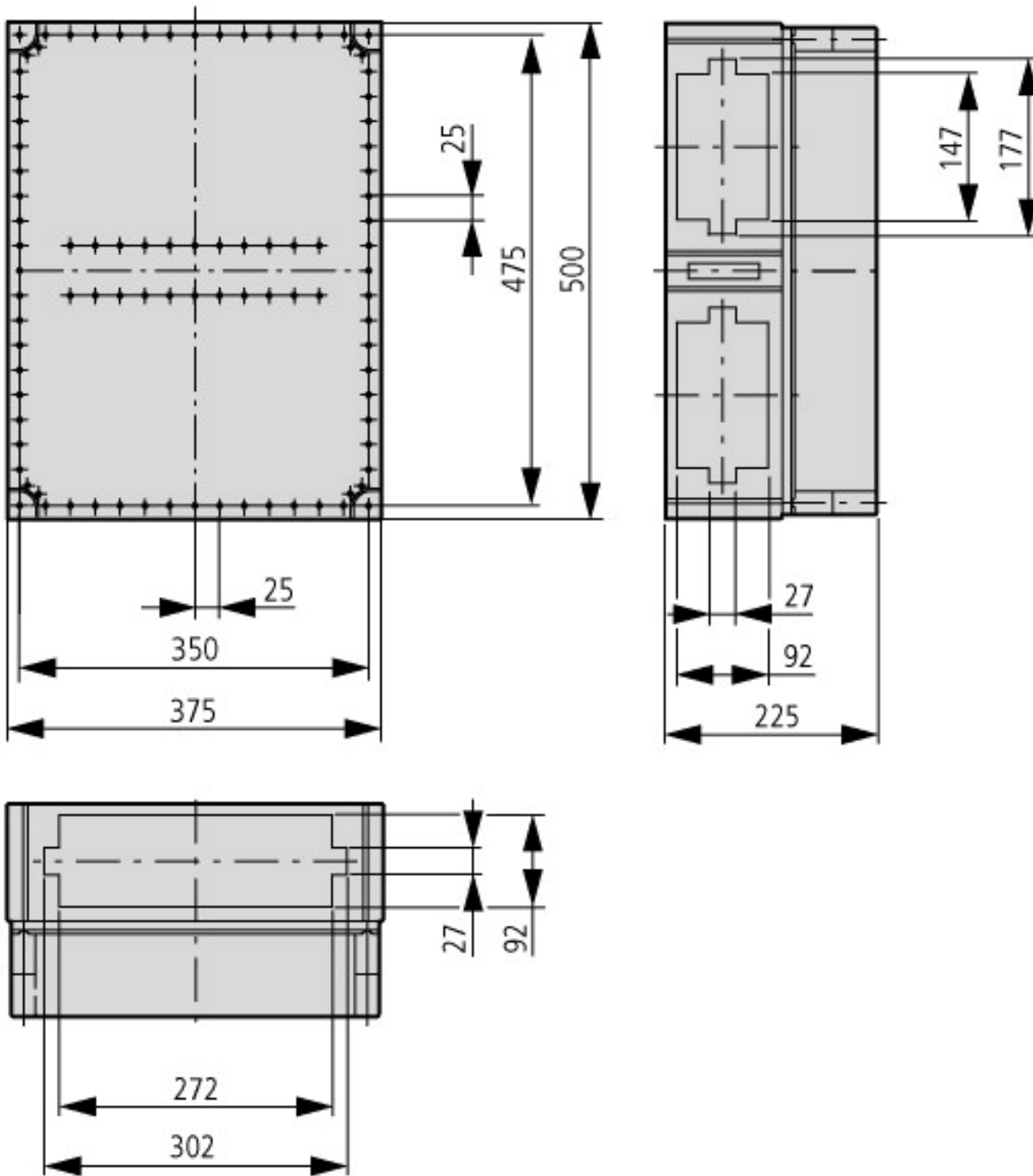
Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	160
Heat dissipation per pole, current-dependent	P_{vid}	W	11
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			
10.2.3.1 Verification of thermal stability of enclosures			
10.2.3.2 Verification of resistance of insulating materials to normal heat			
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			
10.2.5 Lifting			
10.2.6 Mechanical impact			
10.2.7 Inscriptions			
10.3 Degree of protection of ASSEMBLIES			
10.4 Clearances and creepage distances			
10.5 Protection against electric shock			
10.6 Incorporation of switching devices and components			
10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors			
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			
10.9.3 Impulse withstand voltage			
10.9.4 Testing of enclosures made of insulating material			
10.10 Temperature rise			
10.11 Short-circuit rating			
10.12 Electromagnetic compatibility			
10.13 Mechanical function			

Technical data ETIM 7.0

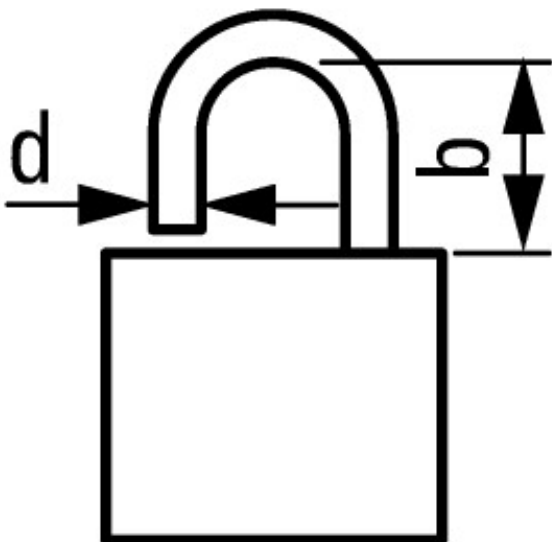
Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec@ss10.0.1-27-37-14-03 [AKF060013])			
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage U_e AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current I_u		A	160
Rated permanent current at AC-23, 400 V		A	105
Rated permanent current at AC-21, 400 V		A	160
Rated operation power at AC-3, 400 V		kW	45

Rated short-time withstand current I _{cw}	kA	3
Rated operation power at AC-23, 400 V	kW	55
Switching power at 400 V	kW	55
Conditioned rated short-circuit current I _q	kA	5
Number of poles		6
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 centre		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		Other
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		Other

Dimensions



The CI45 enclosure is open at the bottom and and at the top!



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

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

$$d = 0.16 - 0.31''$$

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

Additional product information (links)

IL03801017Z (AWA1150-1606) Rotary switch: Main switch

IL03801017Z (AWA1150-1606) Rotary switch: Main switch	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801017Z2018_04.pdf
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=57
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