

Main switch, 6 pole + 1 N/O + 1 N/C, 160 A, STOP function, 90 $^{\circ}$, Lockable in the 0 (Off) position, surface mounting



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

Monte switch Per of group reference Part group reference Stop Function With black roary handle and locking ring Information about equipment supplied Information about equipment supplied Repair which R	H			
Part group reference Stop Function Stop Function Stop Function Stop Function With black rotary handle and locking ring Enclosure without flanges with KS/NNDR. It along a plant glate insert order separately, see Cl insulated enclosure -> accessories is pale Auxiliary contacts NO 1 Lockable in the 0 (Off) position Lockable in the 0 (Off) position I position Lockable in the 0 (Off) pos	Delivery program			
Stop Function Stop Function With black to rany handle and locking ring End guidenest supplied Auxiliary contacts I	Product range			maintenance switch
With black rotary handle and lecking ring Enclosure without flagees with KSQTNUBR. Playland plate insert order separately, see Cl insulated enclosure -> accessories 6 pole No. 1 Lockalpie in the 0 (Off) position Design Design Contact sequence Contact sequence Switching angle Contact sequence Switching angle P	Part group reference			T6
Information about equipment supplied Number of poles Auxiliary contacts Number of contact sequence Auxiliary contacts Number of poles Auxiliary contacts Number of contact sequence Auxiliary contacts Auxiliary contacts Number of contact sequence Auxiliary contacts Auxiliary contacts Number of contact sequence Auxiliary contacts Number of contact units Auxiliary contacts Auxiliary contacts Number of contact units Auxiliary contacts Number of contact sequence victors separately, see Cl insulated enclosure > accessories Auxiliary contacts Number of contact sequence victors are particly, see Cl insulated enclosure > accessories Auxiliary contact sequence Auxiliary contact sequen	Stop Function			STOP function
FL gland plate insert order separately, see Cl insultated enclosure -> accessories 6 pole Auxiliary contacts N/O N/C Lockable in the 0 (0ff) position P65 Lockable in				With black rotary handle and locking ring
Auxiliary contacts NO 1 No 1 Lockable in the 0 (0ff) position P85 Totally insulated Surface mounting Contact sequence Switching angle Pancition Motor rating AC-23A, 50 - 60 Hz 400 Number of contact units No 55 Read uninterrupted current Number of contact units No 55 Read uninterrupted current Number of contact units No 55 Read uninterrupted current Number of contact units No 55 Read uninterrupted current Number of contact units	Information about equipment supplied			FL4 gland plate insert order separately, see CI insulated enclosure -> accessories
N/O N/O N/O N/O N/O N/O N/O N/O				6 pole
N/C 1 Locking facility Locking facility Lockable in the 0 (0ff) position Lockable in the 0 (0ff) po	Auxiliary contacts			
Design Contact sequence Switching angle Function Motor rating AC-23A, 50 - 60 Hz 400 V P kW 55 Rate uninterrupted current I J A 100 Locally insulated Surface mounting Surface mounti	\ 7			
Design Contact sequence Switching angle Function Motor rating AC-23A, 50 - 60 Hz 400 V P kW 55 Rated uninterrupted current lu A 160 Number of contact units Lotally insulated surface mounting LANANANANANANANANANANANANANANANANANANA	Locking facility			Lockable in the 0 (Off) position
Design Surface mounting Contact sequence Switching angle Function Motor rating AC-23A, 50 - 60 Hz 400 V P kW 55 Rated uninterrupted current lu A 150 London Lon	Degree of Protection			IP65
Contact sequence Switching angle Function Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current Number of contact units P kW 55 Rated uninterrupted current Number of contact units L L L L L L L L L L L L L				totally insulated
Switching angle Function Motor rating AC-23A, 50 - 60 Hz 400 V P kW 55 Rated uninterrupted current Iu A 160 Number of contact units Contact	Design			surface mounting
Switching angle Function Motor rating AC-23A, 50 - 60 Hz 400 V P kW 55 Rated uninterrupted current Iu A 160 Number of contact units Contact				
Function Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current Iu A 160 Number of contact units	Contact sequence			2
Motor rating AC-23A, 50 - 60 Hz 400 V P kW 55 Rated uninterrupted current I _u A 160 Number of contact units contact 6	Switching angle		0	90
400 V P kW 55 Rated uninterrupted current I _u A 160 Number of contact units contact 6	Function			
Rated uninterrupted current I _u A 160 Number of contact units contact 6	Motor rating AC-23A, 50 - 60 Hz			
Number of contact units contact 6	400 V	P	kW	55
Number of contact units contact units contact unit(s)	Rated uninterrupted current	l _u	Α	160
	Number of contact units			6

Technical data General

donoru.	
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	-25 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U _{imp}	V AC	8000
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			6 pole
Auxiliary contacts			
		N/0	1
		N/C	1
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	160
Note on rated uninterrupted current !u			Rated uninterrupted current lu is specified for max. cross-section.
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	160
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	3000
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	30
Switching capacity cos φ rated making capacity as per IEC 60947-3		Α	1600
Rated breaking capacity os φ to IEC 60947-3		A	1000
230 V		A	1280
400/415 V		A	900
500 V		A	880
690 V		Α	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	x 10 ⁶	> 0.1
Maximum operating frequency	Operations/h	X 10	50
AC	ороганоло, п		
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	30
230 V Star-delta	Р	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	Α	103
230 V star-delta	l _e	Α	103
400V 415 V	I _e	Α	85
400 V star-delta	I _e	Α	85

500 V	I _e	Α	78
500 V star-delta	I _e	Α	78
690 V	I _e	Α	42
690 V star-delta	I _e	Α	42
AC-21A			
Rated operational current switch			
440 V	ı	A	160
	l _e	^	100
AC-23A		1347	
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	30
400 V 415 V	P	kW	55
500 V	Р	kW	75
690 V	Р	kW	37
Rated operational current motor load switch			
230 V	I _e	Α	103
400 V 415 V	I _e	Α	105
500 V	I _e	Α	106
690 V	I _e	Α	42
DC	·		
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	ı	Α	125
	l _e		
Voltage per contact pair in series		V	42
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e		125
Contacts		Quantity	1
48 V			
Rated operational current	I _e	Α	125
Contacts		Quantity	2
60 V			
Rated operational current	I _e	Α	125
Contacts		Quantity	3
120 V			
Rated operational current	l _e	Α	50
Contacts	Ü	Quantity	
DC-13, Control switches L/R = 50 ms		Qualitity	
		٨	125
Rated operational current	l _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 fault in 100000 operations
Terminal capacities			
Solid or stranded		mm ²	1 x (10 - 95)
			2 x (10 - 35)
Flexible with ferrules to DIN 46228		mm^2	1 x (16 - 70) 2 x (16 - 25)
Conner etrip	Number of	mm	
Copper strip	Number of segments	mm	6 x 9 x 0.8 (2 flat conductors)
	x width x thickness		
Terminal screw	anomioss		M5, Inbus
		Nm	
Max. tightening torque Technical safety parameters:		Nm	14
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			V
Terminal capacity			
Terminal screw			M5, Inbus
Tightening torque		lb-in	123.62
rigiterining torque		ווויעוו	120.02

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects $$			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Please enquire
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

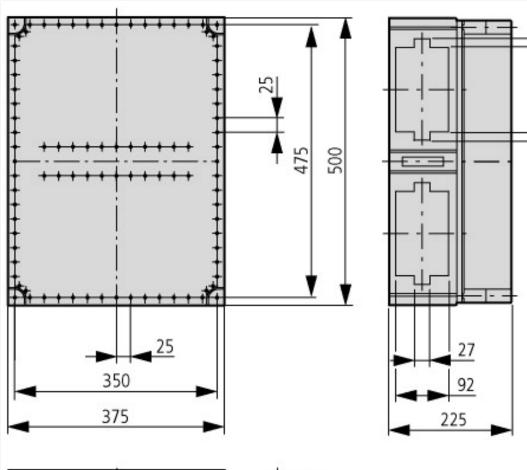
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

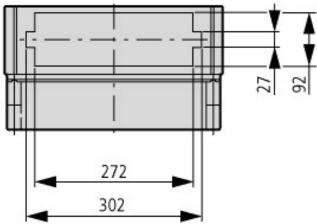
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])

[ANFU00U1U])		
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 Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	160
Rated permanent current at AC-21, 400 V	Α	160
Rated operation power at AC-3, 400 V	kW	45
Rated short-time withstand current lcw	kA	3
Rated operation power at AC-23, 400 V	kW	55
Switching power at 400 V	kW	55
Conditioned rated short-circuit current Iq	kA	5

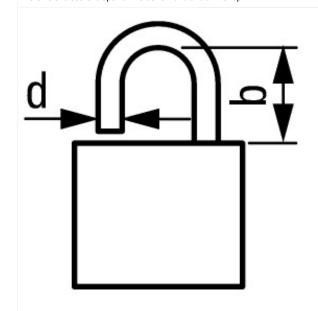
Number of poles	6
Number of auxiliary contacts as normally closed contact	1
Number of auxiliary contacts as normally open contact	1
Number of auxiliary contacts as change-over contact	0
Motor drive optional	No
Motor drive integrated	No
Voltage release optional	No
Device construction	Complete device in housing
Suitable for ground mounting	Yes
Suitable for front mounting 4-hole	No
Suitable for front mounting 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	
Degree of protection (IP), front side	IP65

Dimensions





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



d = 4 - 8 mm $b + d \le 47 \text{ mm}$ d = 0.16 - 0.31 d = 0.85



Additional product information (links)

IL03801017Z (AWA1150-1606) Rotary switch: N	IL03801017Z (AWA1150-1606) Rotary switch: Main switch	
IL03801017Z (AWA1150-1606) Rotary switch: Main switch	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801017Z2015_07.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	