



**Main switch, 6 pole + 1 N/O + 1 N/C, 315 A, STOP function, 90 °, Lockable in the 0 (Off) position, surface mounting**

**Part no. T8-3-8342/148/SVB-SW/Hi11**  
**Article no. 201449**

## Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			T8
Stop Function			STOP function
Information about equipment supplied			With black rotary handle and locking ring
Number of poles			6 pole
<b>Auxiliary contacts</b>			
		N/O	1
		N/C	1
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			IP65
Design			<b>totally insulated</b> surface mounting
Contact sequence			
Switching angle		°	90
Function			
<b>Motor rating AC-23A, 50 - 60 Hz</b>			
400 V	P	kW	132
Rated uninterrupted current	I <sub>u</sub>	A	315
Number of contact units		contact unit(s)	3

## Technical data

Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3
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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/O	1
		N/C	1
Electrical characteristics			
Rated operational voltage	$U_e$	V AC	690
Rated uninterrupted current	$I_U$	A	315
Note on rated uninterrupted current $I_U$			Rated uninterrupted current $I_U$ is specified for max. cross-section. Open = 315, enclosed= 275 A
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	315
Rated short-time withstand current (1 s current)	$I_{cw}$	$A_{rms}$	4200
Note on rated short-time withstand current $I_{cw}$			Current for a time of 1 second
Rated conditional short-circuit current	$I_q$	kA	5

## Switching capacity

cos $\varphi$ rated making capacity as per IEC 60947-3		A	2390
Rated breaking capacity cos $\varphi$ to IEC 60947-3		A	
230 V		A	1910
400/415 V		A	1800
500 V		A	1200
690 V		A	420
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		50
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	37
230 V Star-delta	P	kW	37
400 V 415 V	P	kW	55
400 V Star-delta	P	kW	55
500 V	P	kW	37
500 V Star-delta	P	kW	37
690 V	P	kW	37
690 V Star-delta	P	kW	37
Rated operational current motor load switch			
230 V	$I_e$	A	126
400V 415 V	$I_e$	A	105

400 V star-delta	I <sub>e</sub>	A	105
500 V	I <sub>e</sub>	A	78
500 V star-delta	I <sub>e</sub>	A	78
690 V	I <sub>e</sub>	A	42
<b>AC-21A</b>			
Rated operational current switch			
440 V	I <sub>e</sub>	A	315
<b>AC-23A</b>			
Motor rating AC-23A, 50 - 60 Hz			
230 V	P	kW	75
400 V 415 V	P	kW	132
500 V	P	kW	132
690 V	P	kW	37
Rated operational current motor load switch			
230 V	I <sub>e</sub>	A	239
400 V 415 V	I <sub>e</sub>	A	245
500 V	I <sub>e</sub>	A	184
690 V	I <sub>e</sub>	A	42
<b>DC</b>			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I <sub>e</sub>	A	315
Voltage per contact pair in series		V	42
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I <sub>e</sub>	A	250
Contacts		Quantity	1
48 V			
Rated operational current	I <sub>e</sub>	A	250
Contacts		Quantity	2
60 V			
Rated operational current	I <sub>e</sub>	A	125
Contacts		Quantity	3
120 V			
Rated operational current	I <sub>e</sub>	A	50
Contacts		Quantity	3
DC-13, Control switches L/R = 50 ms			
Rated operational current	I <sub>e</sub>	A	250
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H <sub>F</sub>	< 10 <sup>-5</sup> , < 1 fault in 100000 operations

### Terminal capacities

Solid or stranded		mm <sup>2</sup>	150
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	120
Flat conductor connection with busbars		mm <sup>2</sup>	1 x (25 x 5) 2 x (20 x 3)
Terminal screw			M12
Max. tightening torque		Nm	25

### Technical safety parameters:

<b>Notes</b>			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
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### Rating data for approved types

Terminal capacity			
Terminal screw			M12
Tightening torque		lb-in	220.75

## Design verification as per IEC/EN 61439

Technical data for design verification			
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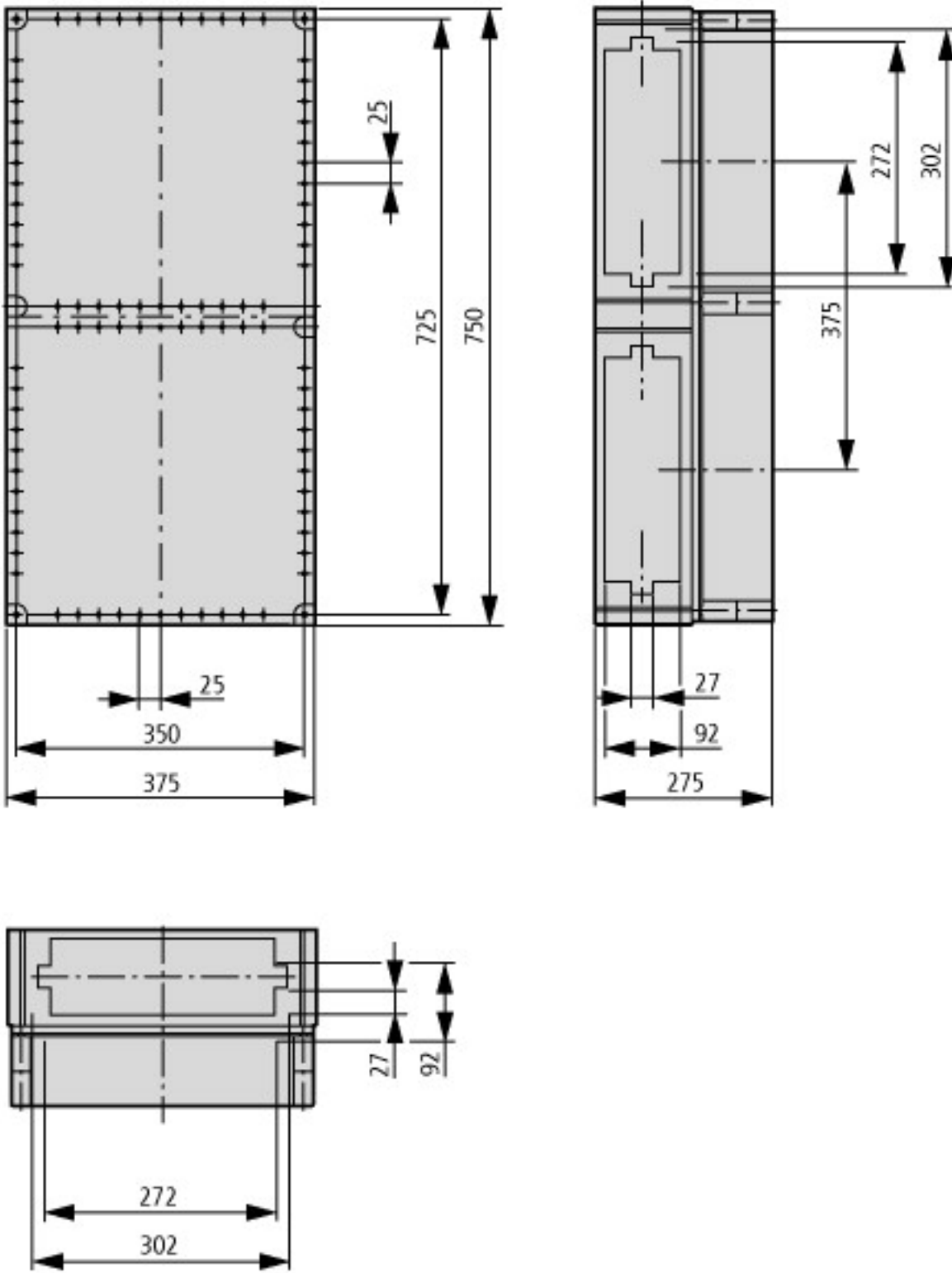
Rated operational current for specified heat dissipation	$I_n$	A	315
Heat dissipation per pole, current-dependent	$P_{vid}$	W	11
Equipment heat dissipation, current-dependent	$P_{vid}$	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient 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 switchgear must be observed.
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 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	315
Rated permanent current at AC-21, 400 V		A	315
Rated operation power at AC-3, 400 V		kW	55
Rated short-time withstand current $I_{cw}$		kA	4.2
Rated operation power at AC-23, 400 V		kW	132
Switching power at 400 V		kW	132
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 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 CI48 enclosure has a top cover height of 275 mm!




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

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

**$d = 0.16 - 0.31''$**

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

 3 padlocks

### Additional product information (links)

#### IL03801017Z (AWA1150-1606) Rotary switch: Main switch

IL03801017Z (AWA1150-1606) Rotary switch: Main switch	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801017Z2015_07.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801017Z2015_07.pdf</a>
Display flip catalog page.	<a href="http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=130">http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=130</a>
Technical overview cam switch, switch-disconnector	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2</a>
System overview cam switch T	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4</a>
System overview switch-disconnector P	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6</a>
Key to part numbers Cam switch	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>
Key to part numbers Switch-disconnector	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>
Switches for ATEX	<a href="http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html">http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html</a>