DATASHEET - T3-6-8348/EA/SVB-SW



Main switch, T3, 32 A, flush mounting, 6 contact unit(s), 12-pole, STOP function, With black rotary handle and locking ring



Part no. T3-6-8348/EA/SVB-SW

Catalog No. 092683

Delivery program	
Product range	Main switch maintenance switch Repair switch
Part group reference	T3
Stop Function	STOP function
	With black rotary handle and locking ring
Number of poles	12-pole
Degree of Protection	Front IP65
Design	flush mounting
Contact sequence	1 0 X 2 0 X 3 0 X 5 0 X 7 0 X 8 0 X 9 0 X 11 0 X 12 0 X 13 0 X 14 0 X 15 0 X 17 0 X 18 0 X 19 0 X 20 0 X 21 0 X 22 0 X 23 0 X
Switching angle	° 90
Design number	8348
volgi iluliivoi	0010

Function			OFF OFF
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	I _u	Α	32
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Number of contact units		contact unit(s)	6

Technical data General

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL 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			
Open		°C	-25 - +50
Enclosed		°C	-25 - +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
Contacts			
Mechanical variables			
Number of poles			12-pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	l _u	Α	32
Note on rated uninterrupted current $\boldsymbol{!}_{\boldsymbol{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	650
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	1
Switching capacity			
cos φ rated making capacity as per IEC 60947-3		Α	320
Rated breaking capacity $\cos \phi$ to IEC 60947-3		Α	
230 V		Α	260
400/415 V		Α	260
500 V		Α	240
690 V		Α	170
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	1.1
Current heat loss per auxiliary circuit at I_e (AC-15/230 V)		CO	1.1
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h		1200
AC			

AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	5.5
230 V Star-delta	P	kW	7.5
400 V 415 V	P	kW	11
400 V Star-delta	P	kW	15
500 V	P	kW	15
500 V Star-delta	P	kW	18.5
690 V	P	kW	11
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	I _e	Α	23.7
230 V star-delta	I _e	Α	32
400V 415 V	I _e	Α	23.7
400 V star-delta	I _e	Α	32
500 V	I _e	Α	23.7
500 V star-delta	l _e	A	32
690 V	l _e	A	14.7
690 V star-delta		A	25.5
AC-21A	l _e	^	20.0
Rated operational current switch 440 V	l-	A	32
440 V AC-23A	l _e	^	VL
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	P	kW	7.5
400 V 415 V	P	kW	15
500 V	P	kW	15
690 V	P	kW	15
Rated operational current motor load switch			
230 V	I _e	Α	32
400 V 415 V	I _e	Α	32
500 V	I _e	Α	26.4
690 V	I _e	Α	17
DC	-6		
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	Α	25
Voltage per contact pair in series	-6	V	60
DC-21A	l _e	A	
Rated operational current	I _e	A	1
Contacts	·e	Quantity	
DC-23A, motor load switch L/R = 15 ms		Quantity	
24 V			
Rated operational current	I _e	Α	25
Contacts	6	Quantity	
48 V			
Rated operational current	I _e	Α	25
Contacts		Quantity	
60 V			
Rated operational current	I _e	Α	25
Contacts		Quantity	
120 V			
120 V Rated operational current	I _e	A	12
120 V Rated operational current Contacts	l _e	A Quantity	

Contacts Quantity Elementary (a) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Rated operational current	l _e	Α	5
DC-13, Control switches UR= 50 ms		·e		
Ruted operational current I _u AU 20 Values per contact plain in sonies V 24 Control circuit reliability at 24 VD C, 10 MA Fault probability Hs of 15°, 1 failure in 100,000 switching operations Flexible curring laces to INN 48278 mm² 1 x (1 - 6) Selectible with ferrules to INN 48278 mm² 1 x (17 - 6) To mind screw mm² 1 x (17 - 6) Technical safety parameters: wm² 1 x (17 - 6) Technical safety parameters: wm² Billay values as per EN ISO 18849-1, table C1 Resting data for approved types wm² Y AC 60 Rated operational valuage Mm² Y AC 60 Rated operational valuage Mm² Y AC 60 General Use Mm² A 800 70 Aucellary contacts Mm² 5 800 Switching capacity Mm² 5 800 Workshing paperation Mm² 5 800 Plot Dulry A 2 800 Switching appearation valuage			Quantity	· ·
Voltage per contact pair in series y V 24 Central circult reliability at 24 V D.C 10 mA 5 author probability 4" of 10 % 1 februe in 100,000 switching operations Flexible cardinal capacities V 1 x 10 - 0 Flexible with formles to DIN 45228 2 x 10 - 0 2 x 10 - 0 Flexible with formles to DIN 45228 8 x 10 - 0 MA Floridation for reminal screw 8 x 10 - 0 MA Technical screy parameters: W MA MA Technical screy parameters: W Y D			٨	20
		ı _e		
Perminal capacities				
Solid or stranded mm² 1x (1 8) Floodbla with forrules to DIN 48228 mm² 1x (0.75 × 4) Terminal screw M M4 Tightening torque for terminal screw M 15 Technical safety parameters: W 100 yalvales as per EN ISO 13849-1, table C1 Rotter Boll of a provided types W P <			HF	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Flookble with ferrules to DIN 48228 1	Terminal capacities			
	Solid or stranded		mm ²	1 x (1 - 6) 2 x (1 - 6)
Tightening torque for terminal screw Section Secti	Flexible with ferrules to DIN 46228		mm ²	
Technical safety parameters: Motes Blag values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts Auxiliary contacts A 600 Plot Duty A 600 Contacts A 600 Switching capacity A 600 Contacts A 600 Switching capacity A 600 Contacts A 600	Terminal screw			M4
Notes Blog values as per RN ISO 13849-1, table C1 Rating data for approved types Very Rate operational voltage	Tightening torque for terminal screw		Nm	1.6
Rated operational voltage	Technical safety parameters:			
Contacts VAC 600 Rated uninterrupted current max. A 50 Main conducting paths A 25 General Use A 50 Axxiliary contacts A 10 Pilot Duty A 600 Switching capacity A 600 Maximum motor rating B A Single-phase B B 200 V AC BP 15 200 V AC BP 3 Three-phase B B 200 V AC BP 3 480 V AC BP 3 480 V AC BP 3 480 V AC BP 3 600 V AC BP 3 8 sic Rating B B B Basic Rating B B B Max Fuse B A 40 High fault rating B A 40 High ratin taing B A 40 (2) (2) (Notes			B10 _d values as per EN ISO 13849-1, table C1
Rated parational voltage U _e VAC 600 Rated uninterrupted current max. V V Main conducting paths A 25 General use B 10 Auxiliary contacts B 10 General Use A 10 Pilot Duty A 600 Switching capacity V V Maximum motor rating V V Single-phase V Y 200 V AC HP 1.5 200 V AC HP 3 240 V AC HP 3 240 V AC HP 3 480 V AC HP 3 480 V AC HP 5 600 V AC HP 5 Short Circuit Current Rating KA 5 Basic Rating KA 4 max. Fuse KA 10 High fault trating KA 10 max. Fuse KA 10 High fault trat	Rating data for approved types			
Rated uninterrupted current max. Amic conducting paths Amic paths Am				
Main conducting paths A 25 Auxiliary contacts Iu A 10 Pict Duty A 600 Pict Duty A 600 Switching capacity F 400 Maximum motor rating F 5 Single-phase HP 15 200 V AC HP 3 240 V AC HP 3 200 V AC HP 3 480 V AC HP 3 480 V AC HP 7.5 600 V AC HP 7.5 480 V AC HP 3 600 V AC HP 3 8hort Circuit Current Rating SCCR HP Basic Rating A 5 max. Fuse A 40 High fault rating A 40 max. Fuse A 40 HP A 40 Modernment A 40 HP 40 40 <t< td=""><td>Rated operational voltage</td><td>U_e</td><td>V AC</td><td>600</td></t<>	Rated operational voltage	U _e	V AC	600
General Use	Rated uninterrupted current max.			
Auxiliary contacts Iu A 0 General Use Iu A 600 Switching capacity Image: I	Main conducting paths			
	General use		Α	25
Pilot Duty A 600 Switching capacity Control of the pass Single-phase Formula of the pass 120 V AC HP 1.5 240 V AC HP 3 240 V AC HP 3 200 V AC HP 3 240 V AC HP 3 240 V AC HP 3 480 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40 Terminal capacity A 40 Solid or flexible conductor with ferrule AWG 14-10	Auxiliary contacts			
Switching capacity Image: Company of the place of the pl	General Use	I_{U}	Α	10
Maximum motor rating He 15 120 V AC HP 15 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 240 V AC HP 3 240 V AC HP 3 480 V AC HP 5 600 V AC HP 10 Short Circuit Current Rating SCCR 5 Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40 Terminal capacity A 40 Solid or flexible conductor with ferrule AWG 41-10	Pilot Duty			A 600
Single-phase HP 1.5 200 V AC HP 3 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity AWG 44-10 Solid or flexible conductor with ferrule AWG 14-10	Switching capacity			
120 V AC HP 1.5 200 V AC HP 3 Three-phase HP 3 200 V AC HP 3 240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity AWG 44-10	Maximum motor rating			
200 V AC	Single-phase			
240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 3.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10	120 V AC		HP	1.5
Three-phase HP 3 200 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10	200 V AC		HP	3
200 V AC HP 3 240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR	240 V AC		HP	3
240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10 Solid or flexible conductor with ferrule AWG 14 - 10	Three-phase			
480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR	200 V AC		HP	3
600 V AC HP 10 Short Circuit Current Rating SCCR	240 V AC		HP	3
Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	480 V AC		HP	7.5
Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10 Solid or flexible conductor with ferrule AWG 14 - 10	600 V AC		HP	10
max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity Terminal capacity AWG 14 - 10	Short Circuit Current Rating		SCCR	
High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	Basic Rating		kA	5
max. Fuse A 40, Class J Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	max. Fuse		Α	40
Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	High fault rating		kA	10
Solid or flexible conductor with ferrule AWG 14 - 10	max. Fuse		Α	40, Class J
	Terminal capacity			
Terminal screw M4	Solid or flexible conductor with ferrule		AWG	14 - 10
	Terminal screw			M4

Design verification as per IEC/EN 61439

Tightening torque

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Heat dissipation per pole, current-dependent	P_{vid}	W	1.1
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	50
IEC/EN 61439 design verification			

lb-in

17.7

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	UV resistance only in connection with protective shield.
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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

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@ss10.0.1-27-37-14-03 [AKF060013])

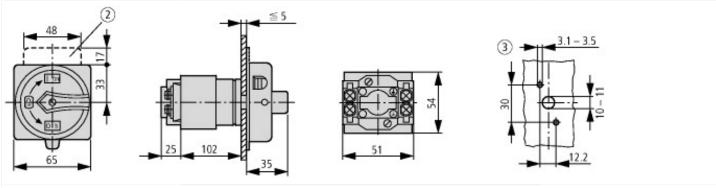
Suitable for ground mounting		No
Device construction		Built-in device fixed built-in technique
Voltage release optional		No
Motor drive integrated		No
Motor drive optional		No
Number of auxiliary contacts as change-over contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Number of poles		12
Conditioned rated short-circuit current Iq	kA	1
Switching power at 400 V	kW	15
Rated operation power at AC-23, 400 V	kW	15
Rated short-time withstand current lcw	kA	0.65
Rated operation power at AC-3, 400 V	kW	11
Rated permanent current at AC-21, 400 V	Α	32
Rated permanent current at AC-23, 400 V	Α	32
Rated permanent current lu	Α	32
Rated operating voltage	٧	690 - 690
Max. rated operation voltage Ue AC	V	690
Number of switches		1
Version as reversing switch		No
Version as emergency stop installation		No
Version as safety switch		No
Version as maintenance-/service switch		Yes
Version as main switch		Yes

Suitable for front mounting 4-hole	No
Suitable for front mounting centre	Yes
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
Degree of protection (NEMA)	12

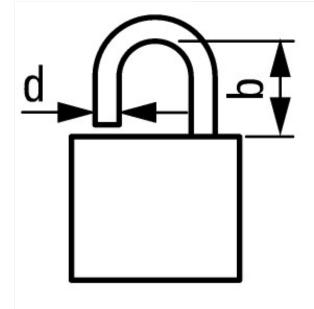
Approvals

Product Standards	UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



- ② ZFS-... Label mount not included as standard ③ Drilling dimensions door



d = 4 - 8 mmb + d ≤ 47 mm d = 0.16 - 0.31" b + d ≦ 1.85"

≦3 padlocks

Assets (links)

Declaration of CE Conformity

00003074

Instruction Leaflets

IL03801020Z2018_05

Additional product information (links)

IL03801020Z (AWA1150-0586) Cam switches: flush mounting		
IL03801020Z (AWA1150-0586) Cam switches: flush mounting	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801020Z2018_05.pdf	
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=41	
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	
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf	
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf	