#### DATASHEET - T3-4-15682/EA/SVB-SW



Main switch, T3, 32 A, flush mounting, 4 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

**FATON**<sup>®</sup> Powering Business Worldwide<sup>®</sup>

Part no. Catalog No. T3-4-15682/EA/SVB-SW 057089

Delivery program			
Product range			Main switch maintenance switch Repair switch
Part group reference			ТЗ
Stop Function			STOP function
			With black rotary handle and locking ring
Number of poles			6 pole
Auxiliary contacts			
188		N/O N/C	1
7			
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			
Switching angle		0	90
Design number			15682
Function			
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	l <sub>u</sub>	А	32
Note on rated uninterrupted current !u			Rated uninterrupted current $\boldsymbol{I}_u$ is specified for max. cross-section.
Number of contact units		contact unit(s)	4

# General Standards IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Climatic proofing Switch-disconnector according to IEC/EN 60947-3 Ambient temperature Damp heat, constant, to IEC 60068-2-78 Open °C -25 - +50

Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			111/3
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			6 pole
Auxiliary contacts			
		N/0	1
		N/C	1
Electrical characteristics			
Rated operational voltage	U <sub>e</sub>	V AC	690
Rated uninterrupted current	lu	A	32
Note on rated uninterrupted current !u			Rated uninterrupted current $\boldsymbol{I}_{u}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x l <sub>e</sub>	2
AB 40 % DF		x I <sub>e</sub>	1.6
AB 60 % DF		x I <sub>e</sub>	1.3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	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			
$\cos \phi$ rated making capacity as per IEC 60947-3		A	320
Rated breaking capacity $\cos \phi$ to IEC 60947-3		А	
230 V		А	260
400/415 V		A	260
500 V		A	240
690 V		A	170
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l <sub>e</sub>		W	1.1
Current heat loss per auxiliary circuit at $\rm I_{e}$ (AC-15/230 V)		C0	1.1
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	5.5
230 V Star-delta	Р	kW	7.5
400 V 415 V	Р	kW	11
400 V Star-delta	Р	kW	15
500 V	Р	kW	15
500 V Star-delta	Р	kW	18.5
690 V	Р	kW	11
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	le	А	23.7
230 V star-delta	le	А	32
400V 415 V	le	А	23.7
400 V star-delta	le	А	32
500 V	I <sub>e</sub>	A	23.7

500 V star-delta	le	А	32
690 V	l <sub>e</sub>	A	14.7
690 V star-delta	le	A	25.5
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	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	1	A	32
400 V 415 V	l <sub>e</sub>	A	32
	l <sub>e</sub>		
500 V	le	A	26.4
690 V	le	A	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	le	А	25
Voltage per contact pair in series		V	60
DC-21A	le	А	
Rated operational current	le	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	le	A	25
Contacts	•	Quantity	1
48 V		,	
Rated operational current	le	A	25
Contacts	·e	Quantity	
60 V		Quantity	2
Rated operational current		A	25
	l <sub>e</sub>		
Contacts 120 V		Quantity	3
		٨	12
Rated operational current	l <sub>e</sub>	A	
Contacts		Quantity	3
240 V			
Rated operational current	l <sub>e</sub>	A	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	le	А	20
Voltage per contact pair in series		V	24
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H <sub>F</sub>	$< 10^{-5}$ , $< 1$ failure in 100,000 switching operations
Terminal capacities	p. coubiity		
Solid or stranded		mm <sup>2</sup>	1 x (1 - 6)
			2 x (1 - 6)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	1 x (0.75 - 4) 2 x (0.75 - 4)
Terminal screw			M4
Tightening torque for terminal screw		Nm	1.6
Technical safety parameters:			
Notes			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U <sub>e</sub>	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
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General use		А	25
Auxiliary contacts			
General Use	lu	A	10
Pilot Duty			A 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	1.5
200 V AC		HP	3
240 V AC		HP	3
Three-phase			
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		Α	40
High fault rating		kA	10
max. Fuse		Α	40, Class J
Terminal capacity			
Solid or flexible conductor with ferrule		AWG	14 - 10
Terminal screw			M4
Tightening torque		lb-in	17.7

### Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipationInA32Heat dissipation per pole, current-dependentPvidWa1.1Equipment heat dissipation, current-dependentPvidWa0Static heat dissipation, non-current-dependentPvsWa0Heat dissipation capacityPdissWa0Operating ambient temperature min.PdissC-25Operating ambient temperature max.CSoSo				
Heat dissipation per pole, current-dependent       Pole       Wei       1.1         Equipment heat dissipation, current-dependent       Pole       Wei       0.1         Static heat dissipation, current-dependent       Pole       Wei       0.1         Heat dissipation capacity       Poles       Wei       0.1         Operating ambient temperature min.       *C       -25         Operating ambient temperature min.       *C       -50         Deperating ambient temperature max.       *C       50         102.2 Strength of materials and parts       *C       50         102.2 Corrosion resistance       *C       Meets the product standard's requirements.         102.3.1 Verification of resistance of insulating materials to aboremal beat and fire due to inserval effects       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to aboremal beat and fire due to inserval effects       Meets the product standard's requirements.         102.3.3 Verification of resistance of insulating materials to aboremal beat and fire due to inserval effects       Meets the product standard's requirements.         102.5 Kiting       Dees not apply, since the entire switchgear needs to be evaluated.         102.6 Mechanical Impact       S       Dees not apply, since the entire switchgear needs to be evaluated.         103.6 Dereo trapply, since the ent	Technical data for design verification			
Equipment heat dissipation, current-dependent         Price         W         O           Static heat dissipation, current-dependent         Price         W         0           Querating ambient temperature min.         Price         PC         25           Operating ambient temperature max.         PC         So         So           102.25 torngth of materials and parts         PC         So         So           102.22 corrosion resistance         Mets the product standard's requirements.         Mets the product standard's requirements.           102.23 Verification of thermal stability of enclosures         Mets the product standard's requirements.         Mets the product standard's requirements.           102.23 Verification of resistance of insulating materials to abnormal heat         Mets the product standard's requirements.           102.23 Verification of resistance of insulating materials to abnormal heat         Mets the product standard's requirements.           102.24 Resistance to ultra-violet (UV) radiation         Des not apply, since the entire switchger needs to be evaluated.           102.24 Resistance to ultra-violet (UV) radiation         Mets the product standard's requirements.           102.25 Lifting         Des not apply, since the entire switchger needs to be evaluated.           102.24 Resistance to protection of ASSEMBLIES         Des not apply, since the entire switchger needs to be evaluated.           10	Rated operational current for specified heat dissipation	In	А	32
Static heat dissipation, on-current-dependent         Pres         We         Occurrent-dependent           Heat dissipation capacity         Paiss         W         0           Operating ambient temperature min.         *C         >5           Operating ambient temperature max.         *C         >5           102.5 Verification         *C         *C           102.22 Corrosion resistance         Mets the product standard's requirements.         *C           102.22 Verification of thermal stability of enclosures         Mets the product standard's requirements.           102.23 Verification of thermal stability of enclosures         Mets the product standard's requirements.           102.23 Verification of resistance of insulating materials to abnormal heat         Mets the product standard's requirements.           102.23 Verification of resistance of insulating materials to abnormal heat         Mets the product standard's requirements.           102.24 Resistance to ultra-widet (UV) radiation         Dece not apply, since the entire switchgear needs to be evaluated.           102.24 Resistance to ultra-widet (UV) radiation         Mets the product standard's requirements.           102.25 Lifting         Dece not apply, since the entire switchgear needs to be evaluated.           102.30 Degree of protection apainst electric shock         Dece not apply, since the entire switchgear needs to be evaluated.           102.5 Protection apain	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	1.1
Had dissipation capacity         Pages         We           Operating ambient temperature min.         *C         25           Operating ambient temperature max.         *C         30           102.5 trength of materials and parts         *C         Meat sub product standard's requirements.           102.2 Corrosion resistance         Meat sub product standard's requirements.         Meats the product standard's requirements.           102.3.1 Verification of thermal stability of enclosures         Meats the product standard's requirements.         Meats the product standard's requirements.           102.3.2.3.1 Verification of resistance of insulating materials to normal heed         Meats the product standard's requirements.         Meats the product standard's requirements.           102.3.2.3.1 Verification of resistance of insulating materials to abnormal heed         Meats the product standard's requirements.         Meats the product standard's requirements.           102.3.2.4 Verification of resistance of insulating materials to abnormal heed         Meats the product standard's requirements.         Meats the product standard's requirements.           10.2.4 Resistance to ultra-violet (UV) radiation         Does not apply, since the entire switchgar needs to be evaluated.         Does not apply, since the entire switchgar needs to be evaluated.           10.2.7 Inscriptions         Does not apply, since the entire switchgar needs to be evaluated.         Does not apply, since the entire switchgar needs to be evaluated.     <	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
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Operating ambient temperature max.         PC         5           ID2 Strength of materials and parts         Meets the product standard's requirements.         Meets the product standard's requirements.           102.23 Lverification of thermal stability of enclosures         Meets the product standard's requirements.         Meets the product standard's requirements.           102.32.3 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects         Meets the product standard's requirements.           102.42 Resistance to ultra-violet (UV) radiation         Meets the product standard's requirements.           102.5 Lifting         Does not apply, since the entire switchgear needs to be evaluated.           102.5 Lorigions         Meets the product standard's requirements.           103.2 Regree of protection of ASSEMBLIES         Meets the product standard's requirements.           104.2 Rearces and creepage distances         Meets the product standard's requirements.           104.5 Protection against electric shock         Does not apply, since the entire switchgear needs to be evaluated.           105.7 Internal electric dircuits and components         Meets the product standard's requirements.           104.6 Internal electric dircuits and components         Meets the product standard's requirements.           105.8 Incorporation of switching devices and components         Meets the product standard's requirements.           104.6 Internal electric dircuits an	Heat dissipation capacity	P <sub>diss</sub>	W	0
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10.9.3 Impulse withstand voltage	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 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 7.0**

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

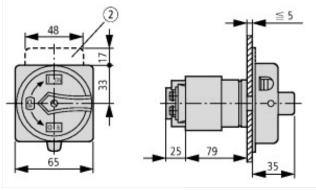
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

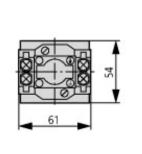
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		No
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	32
Rated permanent current at AC-23, 400 V	А	32
Rated permanent current at AC-21, 400 V	А	32
Rated operation power at AC-3, 400 V	kW	11
Rated short-time withstand current lcw	kA	0.65
Rated operation power at AC-23, 400 V	kW	15
Switching power at 400 V	kW	15
Conditioned rated short-circuit current Iq	kA	1
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		Built-in device fixed built-in technique
Suitable for ground mounting		No
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

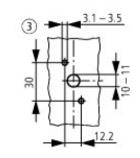
#### **Approvals**

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

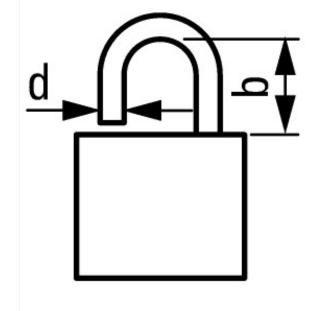
#### **Dimensions**







(2) ZFS-... Label mount not included as standard (3) drilling dimension door



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

≦ 3 padlocks