

Main switch, 3 pole + N + 1 N/O + 1 N/C, 63 A, Emergency-Stop function, 90 °, Lockable in the 0 (Off) position, flush mounting



Part no. T5B-3-8901/EA/SVB Article no. 207420

Interpretation of the policy o	Delivery program			
top Function tombor of poles Luxiliary contacts N/C N/C 1 Lockable in the 0 (0ff) pesition Front IPES flush mounting ontact sequence ontact sequence witching angle nunction Actor rating AC-23A, 50 - 60 Hz 400 Y Fig. N/C P N/C 1 Lockable in the 0 (0ff) pesition Front IPES flush mounting 10 N OFF N/C 1 N/	Product range			maintenance switch
With red rotary handle and yellow locking ring 3 pole + N Auxiliary contacts N/C 1 Lockable in the 0 (Off) position Front PPS Rush mounting Front PPS Rush mounting Front PPS Rush mounting Front PPS Rush mounting I D N OFF Rush mounting Rush mounting I D N OFF Rush mounting Rush mounting I D N OFF	Part group reference			T5B
Autocition y contacts N/O N/C N/C 1 Lockable in the 0 (0H) position Front PPES flush mounting flush mounting ontact sequence ontact sequence witching angle witching angle About rating AC-23A, 50 - 60 Hz Ado V P Ado V Ado S Contact 3	Stop Function			Emergency switching off function
Auxiliary contacts N/O N/C N/C Lockable in the 0 (0ff) position Front IP85 Resign Intuition Ontact sequence Witching angle Auxiliary contact sequence Front IP85 Intuition Intuition Intuition Auxiliary contact sequence Intuition Intuitio				With red rotary handle and yellow locking ring
N/C 1 N/C 1 Lockable in the 0 (Off) position Front IPS5 assign ontact sequence output o	Number of poles			3 pole + N
N/C 1 Lockable in the 0 (0ff) position legree of Protection lesign Front IP65 flush mounting Interpret of Protection Interpret of Protection	Auxiliary contacts			
Lockable in the 0 (Off) position Front IP65 Front IP65 flush mounting ontact sequence witching angle unction After rating AC-23A, 50 - 60 Hz 400 V P kW 30 altad uninterrupted current ly A 63 lumber of contact units words a first and a first an	\\		N/0	1
Front IPES flush mounting ontact sequence ontact sequence order rating AC-23A, 50 - 60 Hz 400 V P kW 400 V P kW 30 atad uninterrupted current lu A 63 lumber of contact units ontact 1PES flush mounting flush mounting IDN OFF 8 90 IDN 90 40 40 A 63 Lumber of contact units	7		N/C	1
flush mounting flush mounting	Locking facility			Lockable in the 0 (Off) position
Actor rating AC-23A, 50 - 60 Hz 400 V P kW 30 Fated uninterrupted current Iu A 63	Degree of Protection			Front IP65
witching angle unction OFF ON OFF OFF ON OFF OFF ON	Design			flush mounting
witching angle unction OFF ON OFF OFF ON OFF OFF ON				
Anotor rating AC-23A, 50 - 60 Hz 400 V P kW 30 Pated uninterrupted current Iu A 63 Iumber of contact units	Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Motor rating AC-23A, 50 - 60 Hz 400 V P kW 30 lated uninterrupted current Iu A 63 lumber of contact units contact 3	Switching angle		0	90
400 V P kW 30 lated uninterrupted current I _u A 63 lumber of contact units contact	Function			
lated uninterrupted current I _u A 63 Illumber of contact units contact 3	Motor rating AC-23A, 50 - 60 Hz			
lumber of contact units contact 3		P	kW	
lumber of contact units contact unit(s) 3	Rated uninterrupted current	lu	Α	63
	Number of contact units		contact unit(s)	3

Technical data

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
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Contacts			
Mechanical variables			
Number of poles			3 pole + N
Auxiliary contacts			
		N/0	1
		N/C	1
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	l _u	Α	63
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 l _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x l _e	1.3
		v.ie	
Short-circuit rating Fuse		A gG/gL	20
Rated short-time withstand current (1 s current)			1300
	I _{cw}	A _{rms}	
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	2
Switching capacity cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		A	
230 V		A	520
400/415 V		A	600
500 V		A	480
690 V		A	340
Safe isolation to EN 61140		^	U-10
between the contacts		V AC	440
Current heat loss per contact at I _e		W	4.5
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	
			4.5
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	P	kW	15
230 V Star-delta	P	kW	18.5
400 V 415 V	P	kW	22
400 V Star-delta	P	kW	30
500 V	P	kW	22
500 V Star-delta	P	kW	37
690 V	P	kW	15
690 V Star-delta	P	kW	22
Rated operational current motor load switch			
230 V	I _e	Α	51
230 V star-delta	I _e	Α	63
400V 415 V	l _e	Α	41
400 V star-delta	I _e	Α	63
500 V	I _e	A	33
500 V star-delta	I _e	A	57.2
690 V		A	17
355 7	l _e	,	

l _e	Α	29.4
I _e	Α	63
P	kW	
P	kW	18.5
Р	kW	30
Р	kW	22
Р	kW	22
ام	A	63
		63
		33
l _e	Α	23.8
l _e	Α	63
	V	60
l _e	Α	50
L	Δ	50
'e		
	uuantity	L
l _e	Α	50
	Quantity	3
l _e	Α	25
	Quantity	3
l _e	Α	20
lo	Δ	25
·e		
F!r		24
Fault probability	HF	< 10 ⁻⁵ , < 1 fault in 100000 operations
	mm ²	1 x (2,5 - 35)
		2 x (2,5 - 16)
	mm^2	1 x (1 - 25) 2 x (1.5 - 10)
		M6
	Nm	
	INIII	4
		B10 _d values as per EN ISO 13849-1, table C1
		2.5g 15.500 do poi 211100 10010 1, table 01
U.	V AC	600
O _e	V AU	
lu	Α	63
10		
	P P P P Ie Ie Ie Ie Ie Iu Ue Iu	P kW P kW P kW P kW P kW I e A

Maximum motor rating		
Single-phase		
120 V AC	НР	3
200 V AC	НР	7.5
240 V AC	НР	10
Three-phase		
200 V AC	НР	15
240 V AC	HP	15
480 V AC	HP	40
600 V AC	HP	40
Short Circuit Current Rating	SCCR	
High fault rating	kA	10
max. Fuse	Α	100, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	12 - 4
Terminal screw		M6
Tightening torque	lb-in	35.4

Design verification as per IEC/EN 61439

3			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
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			
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.
10.13 Mechanical function			

Technical data ETIM 6.0

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

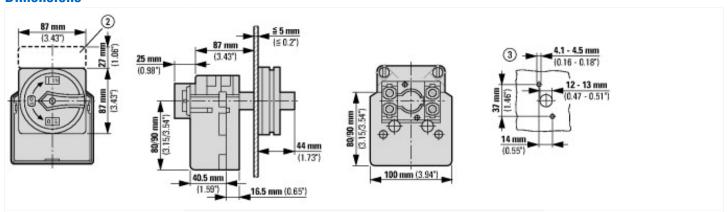
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03

[AKF000010])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	63
Rated permanent current at AC-21, 400 V	Α	63
Rated operation power at AC-3, 400 V	kW	22
Rated short-time withstand current lcw	kA	1.3
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	2
Number of poles		4
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 center		Yes
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Colour control element		Red
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

Approvals

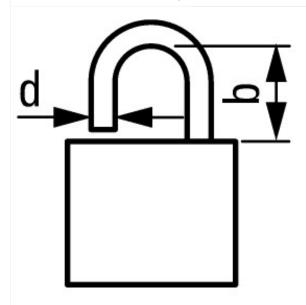
Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



(2) ZFS-... Label mount not included as standard

Drilling dimensions door Cam switches T5B and T5 are same size, only their contacts are different



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

≤ 3 padlocks

Additional product information (links)

IL03801009Z (AWA1150-1692) Cam switch: switch-disconnector		
IL03801009Z (AWA1150-1692) Cam switch: switch-disconnector	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2016_07.pdf	
Form for ordering non-standard front plates	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87	
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	