DATASHEET - P1-32/EA/SVB-SW



Main switch, 3 pole, 32 A, STOP function, Lockable in the 0 (Off) position, flush mounting



Part no. Catalog No. P1-32/EA/SVB-SW 053111

Technical data

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3 NEMA12
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			111/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance	r	g	15
Mounting position		Ū	As required
Contacts			
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/0	0
		N/C	0
Electrical characteristics			
Rated operational voltage	Ue	V AC	690
Rated uninterrupted current	l _u	A	32
Note on rated uninterrupted current !u	·u		Rated uninterrupted current I _u 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 I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	50
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	640
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	lq	kA	80
Switching capacity			
$\cos\phi$ rated making capacity as per IEC 60947-3		А	320
Rated breaking capacity $\cos \phi$ to IEC 60947-3		А	
230 V		А	260
400/415 V		А	300
500 V		А	290
690 V		А	250
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	1.8
Lifespan, mechanical	Operations	x 10 ⁶	> 0.3
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	

220 V 230 V	Р	kW	7.5
400 V 415 V	P	kW	13
500 V	P	kW	18.5
690 V	P	kW	15
Rated operational current motor load switch	1	KVV	
230 V	le	A	26.4
400V 415 V		A	26.4
	l _e		
500 V	l _e	A	23.4
690 V	l _e	A	14.7
AC-21A			
Rated operational current switch			
440 V	l _e	A	32
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	7.5
400 V 415 V	Р	kW	15
500 V	Р	kW	18.5
690 V	Р	kW	15
Rated operational current motor load switch			
230 V	le	A	32
400 V 415 V	le	A	32
500 V	l _e	А	30
690 V	le	А	19.8
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	le	A	32
Voltage per contact pair in series		V	60
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	I _e	A	25
Contacts		Quantity	2
60 V			
Rated operational current	l _e	A	25
Contacts		Quantity	2
120 V			
Rated operational current	l _e	A	12
Contacts		Quantity	
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
	probability		
Terminal capacities Solid or stranded		n	1 x (1 5 6)
Solid of Stranded		mm ²	1 x (1,5 - 6) 2 x (1,5 - 6)
Flexible with ferrules to DIN 46228		mm ²	1 x (1 - 4)
			2 x (1 - 4)
Terminal screw			M4
Tightening torque for terminal screw		Nm	1.6
Technical safety parameters: Notes			$B10_d$ values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
main conducting paths			

General use		А	30
Auxiliary contacts			
General Use	lu	A	10
	'U	~	
Pilot Duty			A 600 P 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	1
200 V AC		HP	2
240 V AC		HP	3
Three-phase			
200 V AC		HP	3
240 V AC		HP	7.5
480 V AC		HP	10
600 V AC		HP	15
Short Circuit Current Rating		SCCR	
Basic Rating		kA	5
max. Fuse		А	110
High fault rating		kA	10
max. Fuse		А	50, Class J
Terminal capacity			
Solid or flexible conductor with ferrule		AWG	14 - 8
Terminal screw			M4
Tightening torque		lb-in	14.1

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipationInA32Heat dissipation per pole, current-dependentPvidWa1.8Equipment heat dissipation, current-dependentPvidWa0Static heat dissipation, non-current-dependentPvsWa0Heat dissipation capacityPdissWa0Operating ambient temperature min.°Ca-25Operating ambient temperature max.Mathematica°Ca				
Heat dissipation per pole, current-dependent Pad Na Equipment heat dissipation, current-dependent Pad Wa Galance (Construction) Static heat dissipation, non-current-dependent Pads Wa Galance (Construction) Operating ambient temperature min. Pads Wa Galance (Construction) Operating ambient temperature max. Pads Construction) Galance (Construction) 10.2 Strength of materials and parts Pads Mast the product standard's requirements. 10.2.3 Verification of resistance of insulating materials to abnormal heat Mast the product standard's requirements. 10.2.3.3 Verification of resistance of insulating materials to abnormal heat Mast the product standard's requirements. 10.2.3.3 Verification of resistance of insulating materials to abnormal heat Mast the product standard's requirements. 10.2.3.3.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Technical data for design verification			
Equipment heat dissipation, current-dependent Poil Weil Static heat dissipation, on-current-dependent Poil Weil 0 Heat dissipation, on-current-dependent Poils Weil 0 Operating ambient temperature min. Poils *C >2 Operating ambient temperature max. *C >0 >0 102 Strength of materials and parts *C *C >0 102.2 Corrosion resistance Incomposition of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.2 Strength of materials and parts Meets the product standard's requirements. Meets the product standard's requirements. 102.2 Strength of materials and parts Meets the product standard's requirements. Meets the product standard's requirements. 102.2 Strength of meterial stability of enclosures Meets the product standard's requirements. Meets the product standard's requirements. 102.3 Strength of materials to abnormal heat Meets the product standard's requirements. Meets the product standard's requirements. 102.5 Uring Des not apply, since the entire switchger needs to be evaluated. Des not apply, since the entire switchger needs to be evaluated. 1	Rated operational current for specified heat dissipation	I _n	А	32
Static heat dissipation, non-current-dependent Pues Weight of the sispation (apacity) Pues	Heat dissipation per pole, current-dependent	P _{vid}	W	1.8
Heat dissipation capacity Pairs We Operating ambient temperature min. "C 5 Operating ambient temperature max. "C 5 10.2 Strength of materials and parts "C 5 10.2.2 Corrosion resistance Meets the product standard's requirements. Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. Meets the product standard's requirements. 10.2.3.2.3. Verification of resistance of insulating materials to normal head and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.2.3. Verification of resistance of insulating materials to abnormal head and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.2. Verification of resistance of insulating materials to abnormal head and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.2. Verification of resistance of insulating materials to abnormal head and fire due to internal electric effects Meets the product standard's requirements. 10.2.5. Urifing No son tapply, since the entire switchgear needs to be evaluated. 10.2.6. Meetshain direction of ASSEMBLIES Neets the product standard's requirements. 10.3.5. Protection against electric stock:	Equipment heat dissipation, current-dependent	P _{vid}	W	0
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10.9 Insulation properties Image: Constraint of the panel builder's responsibility. 10.9.2 Power-frequency electric strength Image: Constraint of the panel builder's responsibility. 10.9.3 Impulse withstand voltage Image: Constraint of the panel builder's responsibility.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
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.	10.8 Connections for external conductors			Is the panel builder's responsibility.
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 6.0

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

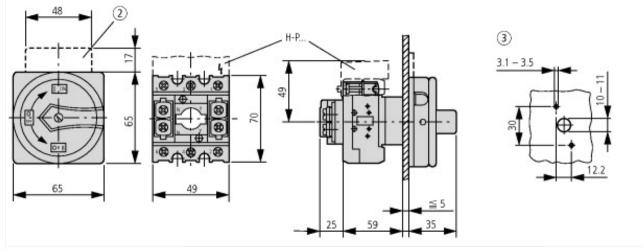
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])

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	А	32
Rated permanent current at AC-21, 400 V	А	32
Rated operation power at AC-3, 400 V	kW	13
Rated short-time withstand current lcw	kA	0.64
Rated operation power at AC-23, 400 V	kW	15
Switching power at 400 V	kW	15
Conditioned rated short-circuit current Iq	kA	80
Number of poles		3
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
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		Yes
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		Screw connection
Degree of protection (IP), front side		IP65

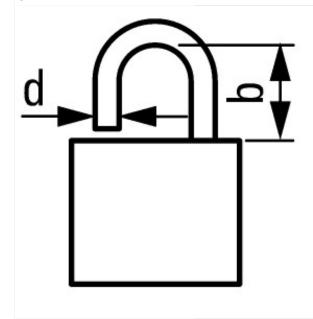
Approvals

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

≦ 3 padlocks