DATASHEET - P1-32/EA/SVB



Main switch, P1, 32 A, flush mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



P1-32/EA/SVB
081438
0001456115

(Norway)

Delivery program

Derivery program			
Product range			Main switch maintenance switch Repair switch
Part group reference			P1
Stop Function			Emergency switching off function
			With red rotary handle and yellow locking ring
Information about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
Number of poles			3 pole
Auxiliary contacts			
1		N/0	0
7		N/C	0
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			
Function			
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	Iu	А	32
Note on rated uninterrupted current $\boldsymbol{!}_u$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
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

06/18/2021

Ambient temperature

NEMA12

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

numbernumbe	Open		°C	-25 - +50
NetworksingNetworksi				
Number particulation visitanceNumber part of the section			Ū	
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ControlNumber of poleNumber of pol			y	
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Additional statementAdditional statementImage: Additional s	Number of poles			3 pole
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AB 49 % DFImage: set of the se			v I	2
AB 0% DFNote <t< td=""><td></td><td></td><td></td><td></td></t<>				
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Maximum operating frequency Operations// Note 200 AC - </td <td></td> <td>Operations</td> <td></td> <td></td>		Operations		
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AC-3Image: Constraint of the second seco		Uperations/h		1200
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690 V P kW 5 Rated operational current motor load switch Image: P				
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AC-23A		l _e	А	23.4
	690 V	le	А	14.7
Motor rating AC-23A, 50 - 60 Hz P kW	AC-23A			
	Motor rating AC-23A, 50 - 60 Hz	Ρ	kW	
230 V P kW 7.5	230 V	Ρ	kW	7.5
400 V 415 V P kW 15	400 V 415 V	Р	kW	15
500 V P kW 18.5	500 V	Р	kW	18.5

690 V	Р	kW	15
Rated operational current motor load switch			
230 V	Ι _e	А	32
400 V 415 V	Ι _e	A	32
500 V	I _e	A	30
690 V	le	A	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	
48 V		,	
Rated operational current	le	A	25
Contacts		Quantity	
60 V		audinuty	-
Rated operational current	1.	A	25
	I _e		
Contacts		Quantity	2
120 V		٨	12
Rated operational current	le	A	12
Contacts		Quantity	
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	$< 10^{-5}$, < 1 failure in 100,000 switching operations
Terminal capacities			
Solid or 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			
General use		А	30
Auxiliary contacts			
General Use	IU	А	10
Pilot Duty			A 600 P 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		НР	1
200 V AC		нр	2
200 V AC 240 V AC		нр	3
Three-phase			
200 V AC		HP	3
240 V AC		НР	7.5
480 V AC		HP	10
600 V AC		НР	15
600 V AC Short Circuit Current Rating		HP	15
600 V AC Short Circuit Current Rating Basic Rating		HP SCCR kA	15 5

max. Fuse	A	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

Desia	n verification	as p	er IEC/EN	61439

besign vermoution as per reo/en or-tos			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	32
Heat dissipation per pole, current-dependent	P _{vid}	W	1.8
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			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 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@ss10.01-27-37-14-08)

 Version as main switch
 Image: Control engineering / Low-voltage switch

 Version as maintenance-/service switch
 Image: Control engineering / Low-voltage switch

 Version as safety switch
 Image: Control engineering / Low-voltage switch

 Version as safety switch
 Image: Control engineering / Low-voltage switch

 Version as safety switch
 Image: Control engineering / Low-voltage switch

 Version as reversing switch
 Image: Control engineering / Low-voltage switch

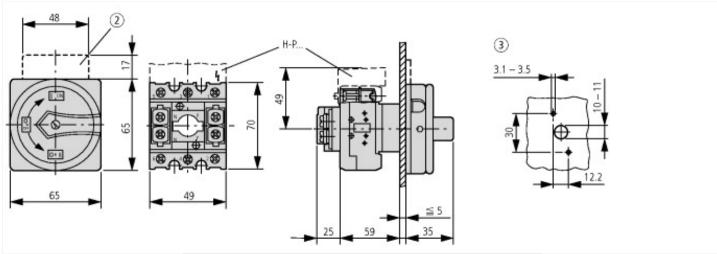
 Number of switches
 Image: Control engineering / Low-voltage switch

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	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 centre		No
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
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

