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

07/30/2021

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	
Machine discoversationeService discov		Uimn	V AC	
Number of pointsNumber of pointsContactsNumber of pointsNumber		Cimp		
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Betchick classicationNum			N/0	0
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AB 49 % DFImage: set of the se			v I	2
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AC-3Image: Constraint of the second seco		Uperations/h		1200
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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	l _e	А	32
400 V 415 V	۱ _e	А	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	l _e	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	l _e	A	25
Contacts	-6	Quantity	
60 V		countily	-
Rated operational current	I _e	A	25
	·e		
Contacts 120 V		Quantity	<u>د</u>
Rated operational current	l _e	A	12
	'e		
Contacts	Frida	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		2	1 x (1 - 4)
		mm ²	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		V AC	600
	U _e	V AU	
Rated uninterrupted current max.			
Main conducting paths		٨	an.
General use		A	30
Auxiliary contacts		٨	10
General Use	Ι _U	A	10
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 HP	3 7.5
240 V AC 480 V AC			
		HP	7.5
480 V AC		HP HP	7.5 10
480 V AC 600 V AC		HP HP HP	7.5 10

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

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 science for a switch / Switch disconnector (ecl@ss10.01-27-37-14-08)

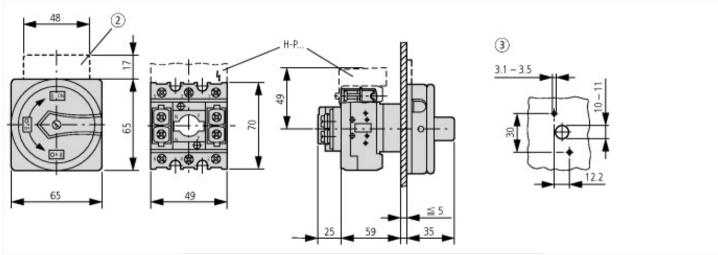
 Version as main switch
 Image: State state

Number of subsignational polagia V 80			
Radig permanent current lu A S Radig permanent current at AC-23, 400 V A 3 Rated permanent current at AC-23, 400 V A 3 Rated permanent current at AC-23, 400 V A 3 Rated operation power at AC-23, 400 V A 8 Rated operation power at AC-23, 400 V B N Rated operation power at AC-23, 400 V B N Solitching power at AC-23, 400 V B N Conditioned rated short-circuit current lq KM 15 Conditioned rated short-circuit current lq KM 3 Number of poles N 3 Number of auxiliary contacts as normally open contact M 3 Number of subility contacts as normally open contact M 3 Number of subility contacts as normally open contact M 3 Number of subility contacts as normally open contact M 3 Number of subility contacts as normally open contact M 3 Number of subility contacts as normally open contact N Notactentonique Subable of nort mounting 4-bole </td <td>Max. rated operation voltage Ue AC</td> <td>V</td> <td>690</td>	Max. rated operation voltage Ue AC	V	690
Anted permanent current at AC-23, 400 V A 2 Rated permanent current at AC-21, 400 V KW 3 Rated operation power at AC-3, 400 V KW 3 Rated operation power at AC-23, 400 V KM 5 Rated operation power at AC-23, 400 V KW 5 Rated operation power at AC-23, 400 V KW 5 Switching power at 400 V KW 5 Conditioned rated short-circuit current lq KW 80 Number of polies KW 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as change-cover contact F 6 6 Number of auxiliary contacts as change-cover contact F 6 6 Notor drive potional F 6 6 6 Notar drive potional F 6 No Suitable for front mounting 4-hole F No 6 Suitable for intramediate mounting F 6 No Suitable for intramediate mounting F No No Suitable for intramediate mounting F No No Suitable for intramediate mounting F <	Rated operating voltage	V	690 - 690
Anted permanent current tak-21,400 V Image: Participation power at AC-3,400 V Image: Participation power at AC-3,400 V Rated operation power at AC-23,400 V Image: Participation power at AC-23,400 V Image: Participation power at AC-23,400 V Switch ing power at 400 V Image: Participation power at AC-23,400 V Image: Participation power at AC-23,400 V Switch ing power at 400 V Image: Participation power at AC-23,400 V Image: Participation power at AC-23,400 V Switch ing power at 400 V Image: Participation power at AC-23,400 V Image: Participation power at AC-23,400 V Switch ing power at 400 V Image: Participation Power at AC-23,400 V Image: Participation Power at AC-23,400 V Switch ing power at 400 V Image: Participation Power at AC-23,400 V Image: Participation Power at AC-23,400 V Switch ing power at 400 V Image: Participation Power at AC-23,400 V Image: Participation Power at AC-23,400 V Switch ing power at AC-23,400 V Image: Participation Power at AC-23,400 V Image: Participation Power at AC-23,400 V Number of auxiliary contacts as normally closed contact Image: Participation Power at AC-23,400 V Image: Participation Power at AC-23,400 V Number of auxiliary contacts as normally closed contact Image: Participation Power at AC-23,400 V Image: Participation Power at AC-23,400 V Notor drive optional Image: Participation Power at AC-23,400 V Image: Participation Power at AC-23,400 V <	Rated permanent current lu	А	32
Anter operation power at AC-3, 400 V IM Image: Ima	Rated permanent current at AC-23, 400 V	А	32
Rated short-time withstand current low Image: Ra	Rated permanent current at AC-21, 400 V	А	32
Reted operation power at AC-23, 400 V IM Image: Solution power at 400 V Switching power at 400 V Image: Solution power at 400 V Image: Solution power at 400 V Conditioned rated short-circuit current lq Image: Solution power at 400 V Image: Solution power at 400 V Number of poles Image: Solution power at AC-23, 400 V Image: Solution power at 400 V Number of poles Image: Solution power at AC-23, 400 V Image: Solution power at 400 V Number of auxiliary contacts as normally open contact Image: Solution power at AC-23, 400 V Image: Solution power at AC-23, 400 V Number of auxiliary contacts as normally open contact Image: Solution power at AC-23, 400 V Image: Solution power at AC-23, 400 V Number of auxiliary contacts as normally open contact Image: Solution power at AC-23, 400 V Image: Solution power at AC-23, 400 V Number of auxiliary contacts as normally open contact Image: Solution power at AC-23, 400 V Image: Solution power at AC-23, 400 V Number of auxiliary contacts as normally open contact Image: Solution power at AC-23, 400 V Image: Solution power at AC-23, 400 V Noter of auxiliary contacts as normaling contact Image: Solution power at AC-23, 400 V Image: Solution power at AC-23, 400 V Suitable for fort mounting centre Image: Solution fortand dristallation	Rated operation power at AC-3, 400 V	kW	13
Weitering power at 400 VImage: Second Se	Rated short-time withstand current lcw	kA	0.64
Kan outputKan BBNumber of polesIIINumber of auxiliary contacts as normally closed contactIIINumber of auxiliary contacts as normally open contactIIINumber of auxiliary contacts as change-over contactIIINutates of contact and nummingIIIINumber of auxiliary contactI </td <td>Rated operation power at AC-23, 400 V</td> <td>kW</td> <td>15</td>	Rated operation power at AC-23, 400 V	kW	15
Number of poles 3 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Muther of auxiliary contacts as normally open contact 0 Motor drive optional No Motor drive integrated No Voltage release optional No Suitable for ground mouting No Suitable for front mouting 4-hole No Suitable for instribution board installation No Suitable for instribution No Suitable fori	Switching power at 400 V	kW	15
Auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Motor drive optional No Motor drive integrated No Voltage release optional No Device construction No Suitable for ground moutting No Suitable for front mounting 4-hole No Suitable for first mounting centre No Suitable for instruction No Suitable for instructure No Suitable for instructure No Colour control element No Type of control element No Interlockable Yes Type of portection (I/P), front side Yes Super of portection (I/P), front side	Conditioned rated short-circuit current Iq	kA	80
Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact 0 Motor drive optional No Motor drive optional No Number of auxiliary contacts as normally open contact No 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 4-hole No Suitable for front mounting centre Yes Suitable for intermediate mounting No Suitable for intermediate mounting Yes	Number of poles		3
Number of auxiliary contacts as change-over contact Image: Control optional Image: Control optional Motor drive optional Image: Control optional Image: Control optional Motor drive integrated Image: Control optional Image: Control optional Voltage release optional Image: Control optional Image: Control optional Suitable for ground mounting Image: Control optional Image: Control optional Suitable for front mounting option Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional Suitable for intermediate mounting Image: Control optional Image: Control optional	Number of auxiliary contacts as normally closed contact		0
Autor drive optional No 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 No Suitable for intermediate mounting No Colour control element No Type of control element No Interlockable Yes Type of electrical connection of main circuit Yes Stere of protection (IP), front side IP65	Number of auxiliary contacts as normally open contact		0
Motor drive integrated Moder drive integrated<	Number of auxiliary contacts as change-over contact		0
Variage release optional No Device construction Built-in device fixed built-in technique Suitable for ground mounting No Suitable for front mounting 4-hole Ves Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element No Type of centrel formanic ricruit Serve consection Type of electrical connection of main circuit Serve connection Degree of protection (IP), front side Serve connection	Motor drive optional		No
Device constructionBillt-in device fixed built-in techniqueDevice constructionBuilt-in device fixed built-in techniqueSuitable for ground mountingNoSuitable for front mounting centreYesSuitable for distribution board installationNoSuitable for intermediate mountingNoSuitable for intermediate mountingNoColour control elementNoType of control elementSourcoupling rotary driveInterlockableYesType of electrical connection of main circuitSourcoupling rotary driveDegree of protection (IP), front sideSourcoupling connection (IP), front side	Motor drive integrated		No
Suitable for ground mountingNoSuitable for front mounting 4-holeYesSuitable for front mounting centreNoSuitable for distribution board installationYesSuitable for distribution board installationYesSuitable for intermediate mountingNoColour control elementNoType of control elementYesInterlockableYesType of electrical connection of main circuitYesDegree of protection (IP), front sideYesInterlockableYesInterlockableYesType of electrical connection of main circuitYesInterlockableYe	Voltage release optional		No
Suitable for front mounting 4-hole Yes Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting Mo Colour control element No Type of control element Med Interlockable Yes Type of electrical connection of main circuit Set energy Degree of protection (IP), front side Interlockable	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementRedType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitSciew connectionDegree of protection (IP), front sideInterlockable	Suitable for ground mounting		No
Suitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementRedType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideInterlockable	Suitable for front mounting 4-hole		Yes
Suitable for intermediate mountingNoColour control elementRedType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideSteel	Suitable for front mounting centre		No
Colour control elementRedType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideMathematical Screw connection	Suitable for distribution board installation		No
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 Montpact	Suitable for intermediate mounting		No
Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Image: Content of the second s	Colour control element		Red
Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Type of control element		Door coupling rotary drive
Degree of protection (IP), front side	Interlockable		Yes
	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) 12	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

