DATASHEET - P3-63/EA/SVB/N



Main switch, P3, 63 A, flush mounting, 3 pole + N, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no.P3-63/EA/SVB/NCatalog No.010398

EL-Nummer (Norway) 0001417003

Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			P3
Stop Function			Emergency switching off function
			With red rotary handle and yellow locking ring
Information about equipment supplied			auxiliary contact fitted by user.
Number of poles			3 pole + N
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	30
Rated uninterrupted current	l _u	A	63
Note on rated uninterrupted current !u			Rated uninterrupted current I_{u} is specified for max. cross-section.
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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

Overvoltage category/pollution degree Image: Imag	Enclosed		°C	-25 - +40
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Manual plack inclusion999Manual plack inclusionNoNoNoManual plack inclusionNoNoNo<		U:	V AC	
NameNameNameConstructionName<		Cimp		
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Note or reduning any interminent operation, class 12Image: set of the set	Rated operational voltage	U _e	V AC	690
Note or reduning any interminent operation, class 12Image: set of the set	Rated uninterrupted current	l _u	A	63
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Shirt-circuit ratingImage: space sp				
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Switching capacity as per IEC 60097-3				
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AC- P			x 10°	
AC-3Image: Constraint of the second seco		Operations/h		1200
Rating, motor load switchPkW20 V 230 VPkW5400 V 415 VPkW3500 VPkW3690 VPkW3730 VPFF230 VPA5400 V 415 VPA5500 VPA5690 VPA5600 VPA4600 VPA4600 VPA4600 VPA4600 VPAA610 VPPA610 VPPP </td <td></td> <td></td> <td></td> <td></td>				
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690 V P KW 3 690 V Rated operational current motor load switch - - 230 V Ie A 5 400V 415 V Ie A 5 500 V Ie A 5 690 V Ie A 4 640 operational current switch Ie A 4 440 V Ie Ie Ie Ie 440 V Ie A A A AC-23A Ie A A A Motor rating AC-23A, 50 - 60 Hz P KW A				
Rated operational current motor load switch Image: Constraint of the second s				
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440 VIeABAC-23AHeAAMotor rating AC-23A, 50 - 60 HzPkW				
AC-23A Action AC-23A, 50 - 60 Hz P kW				
Motor rating AC-23A, 50 - 60 Hz P kW	440 V	l _e	A	63
	AC-23A			
230 V P kW 18.5	Motor rating AC-23A, 50 - 60 Hz	Р	kW	
	230 V	Р	kW	18.5

400 V 415 V	Р	kW	30
500 V	Р	kW	45
690 V	Р	kW	55
Rated operational current motor load switch			
230 V	Ι _e	А	63
400 V 415 V	Ie	A	63
500 V	le	A	63
690 V	le	A	63
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	A	63
	'e	V	60
Voltage per contact pair in series		v	00
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	le	A	50
Contacts		Quantity	1
48 V			
Rated operational current	le	A	50
Contacts		Quantity	2
60 V			
Rated operational current	Ι _e	А	50
Contacts		Quantity	2
120 V			
Rated operational current	Ie	A	25
Contacts		Quantity	3
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
	probability	1	
Terminal capacities			
Solid or stranded		mm ²	1 x (2,5 - 35) 2 x (2,5 - 10)
Flexible with ferrules to DIN 46228		2	1 x (1.5 - 25)
		mm ²	2 x (1.5 - 6)
Terminal screw			M5
Tightening torque for terminal screw		Nm	3
Technical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Notes Rating data for approved types			B10 _d values as per EN ISO 13849-1, table C1
Notes Rating data for approved types Contacts			
Notes Rating data for approved types	Ue	V AC	B10 _d values as per EN ISO 13849-1, table C1 600
Notes Rating data for approved types Contacts	U _e	V AC	
Notes Rating data for approved types Contacts Rated operational voltage	U _e	V AC	
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Notes Rating data for approved types Contacts Cated operational voltage Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase		A A HP	600 60 10 A 600 P 600
Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC		A A HP HP	600 60 10 A 600 P 600
Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC		A A HP HP	600 60 60 10 A 600 P 600
NotesRating data for approved typesContactsRated operational voltageRated uninterrupted current max.Main conducting pathsGeneral useAuxiliary contactsGeneral UsePilot DutySwitching capacityMaximum motor ratingSingle-phase120 V AC240 V AC240 V AC		A A HP HP	600 60 60 10 A 600 P 600
NotesRating data for approved typesContactsRated operational voltageRated uninterrupted current max.Main conducting pathsGeneral useAuxiliary contactsGeneral UsePilot DutySwitching capacityMaximum motor ratingSingle-phase120 V AC200 V AC240 V ACThree-phase		А А НР НР НР	600 60 60 10 A 600 P 600 3 3 7.5 10
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NotesRating data for approved typesContactsRated operational voltageRated uninterrupted current max.Main conducting pathsGeneral useAuxiliary contactsGeneral UsePilot DutySwitching capacityMaximum motor ratingSingle-phase120 V AC200 V AC240 V AC240 V AC240 V AC240 V AC240 V AC		A A HP HP HP HP	600 60 10 A 600 P 600 3 7.5 10 10

Short Circuit Current Rating	SCCR	
Basic Rating	kA	10
max. Fuse	А	150
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	14 - 2
Terminal screw		M5
Tightening torque	lb-in	26.5

Design verification as per IEC/EN 61439

Design vernication as per 120/214 01455			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	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			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

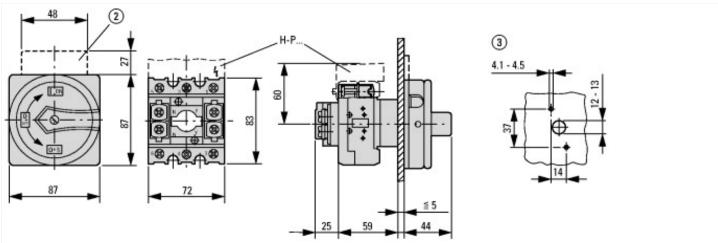
 Version as maintenance-/service switch
 Version as safety switch
 Version as mergency stop installation
 Version as reversing switch
 No
 No

Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	63
Rated permanent current at AC-23, 400 V	А	63
Rated permanent current at AC-21, 400 V	А	63
Rated operation power at AC-3, 400 V	kW	30
Rated short-time withstand current lcw	kA	1.26
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	4
Number of poles		4
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

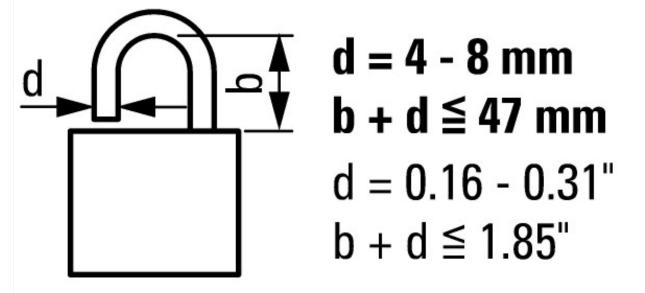
Approvals

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



 $[\]textcircled{2}$ ZFS-... Label mount not included as standard



≦3 padlocks

Assets (links)

Declaration of CE Conformity 00003104

Instruction Leaflets IL03802002Z2018 05