DATASHEET - P3-30/EA/SVB-SW-MCS



Main switch, P3, 30 A, flush mounting, 3 pole, With black rotary handle and locking ring, Lockable in the 0 (Off) position, UL/CSA $\,$



Part no. P3-30/EA/SVB-SW-MCS Catalog No. 237893

Similar to illustration

Delivery program			
Product range			Main switch maintenance switch Repair switch
Part group reference			P3
			With black rotary handle and locking ring
Notes			UL/CSA
Number of poles			3 pole
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Function			O OFF
Rated uninterrupted current	I _u	Α	30
Note on rated uninterrupted current !u			Rated uninterrupted current $I_{\rm u}$ is specified for max. cross-section.

Technical data

Electrical characteristics

Rated operational voltage

General			
Standards			UL489
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
Contacts			
Mechanical variables			
Number of poles			3 pole

V AC

480

 U_{e}

Rated uninterrupted current	l _u	Α	30
Note on rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	100
Switching capacity			
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	> 0.1
Maximum operating frequency	Operations/h		1200
Terminal capacities			
Terminal screw			M5
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	480
Rated uninterrupted current max.			
Main conducting paths			
General use		Α	30
Short Circuit Current Rating		SCCR	
High fault rating		kA	10
max. Fuse		Α	30, Class RK5
Terminal capacity			
Terminal capacity Solid or flexible conductor with ferrule		AWG	14 - 2
		AWG	14 - 2 M5
Solid or flexible conductor with ferrule		AWG	

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	30
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
EC/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)

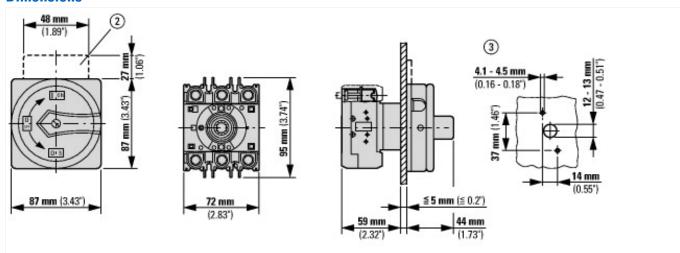
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

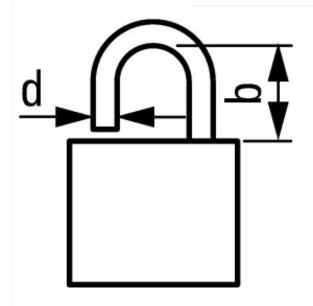
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Version as emergency stop installation Version as enversing switch Number of switches Number of switches Number of switches Reted operating voltage Reted permanent current at AC-23, 400 V Reted operating voltage Reted permanent current at AC-23, 400 V Reted operating no power at AC-3, 400 V Reted operation power at AC-3, 400	Version as maintenance-/service switch		Yes
Version as raversing switch Number of switches Max. rated operation voltage Ue AC Max. Pated operation voltage Ue AC Rated operation voltage Rated operation power at AC-23, 400 V Rated o	Version as safety switch		No
Number of switches 1 Max. rated operation voltage Ue AC V 480 Rated operation voltage V 480 - 480 Rated permanent current tu A 30 Rated permanent current at AC-23, 400 V A 0 Rated operation power at AC-3, 400 V AW 0 Rated operation power at AC-3, 400 V AW 0 Rated operation power at AC-3, 400 V AW 0 Rated operation power at AC-3, 400 V AW 0 Rated operation power at AC-3, 400 V AW 0 Switching power at 400 V AW 0 Conditioned rated short-circuit current Iq A 4 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact No No Number of auxiliary contacts as change-over contact No No Vottage release optional No No Device construction No No Suitable for front mounting 4-hole No	Version as emergency stop installation		No
Max. rated operation voltage Ue AC V 480 - 480 Rated operating voltage V 480 - 480 Rated permanent current turent turent turent turent turent turent turent at AC-23, 400 V A 0 Rated operation power at AC-3, 400 V kW 0 Rated short-time withstand current Low kA 0 Rated short-time withstand current Low kW 0 Conditioned rated short-circuit current Iq kA 4 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 No Motor drive integrated No No Voltage release optional No No Device construction N	Version as reversing switch		No
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Rated permanent current lu A 30 Rated permanent current at AC-23, 400 V A C Rated permanent current at AC-21, 400 V A 0 Rated operation power at AC-23, 400 V kW 0 Rated operation power at AC-23, 400 V kW 0 Rated operation power at AC-23, 400 V kW 0 Switching power at 400 V kW 0 Conditioned rated short-circuit current Iq kA 4 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 0 3 Number of auxiliary contacts as normally copen contact 0 3 Mumber of auxiliary contacts as change-over contact 0 No Motor drive optional No No Motor drive integrated No No Voltage release optional No No Device construction Built-in device fixed built-in technique Suitable for ground mounting Yes Suitable for front mounting 4-hole Yes Suitable for intermediate mounting No	Max. rated operation voltage Ue AC	V	480
Rated permanent current at AC-23, 400 V Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-23, 400 V Rated operation power at AC-30, 400 V Rated operation power at AC-23, 400 V Rated operation power at AC-30, 400 V Rated operation power at AC-30	Rated operating voltage	V	480 - 480
Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated operation power at AC-23, 400 V Rowtiching power at 400 V Rowtiching power at 400 V Romitioned rated short-circuit current lq Rowther of poles Rumber of auxiliary contacts as normally closed contact Rowther of auxiliary contacts as normally open contact Rowther of auxiliary contacts as normally open contact Rowther of auxiliary contacts as schange-over contact Rowther of auxiliary contacts as schange-over contact Rowther of auxiliary contacts as change-over contact Rowther of intervention Rowther of auxiliary contacts as change-over contact Rowther of auxiliary contacts as change-over contact Rowther of auxiliary contacts as change-over contact Rowther of auxiliary contacts as normally open contact Rowther of auxiliary contacts as change-over contact Rowther of auxiliary contacts as normally open contact Rowther of auxiliary contacts as norm	Rated permanent current lu	Α	30
Rated operation power at AC-3, 400 V Rated short-time withstand current low Rated operation power at AC-23, 400 V Routed operation power at AC-23, 400 V Routed operation power at AU-02, 400 V Routed of power at 400	Rated permanent current at AC-23, 400 V	Α	
Rated short-time withstand current low Rated operation power at AC-23, 400 V RW	Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-23, 400 V	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Suitable	Rated short-time withstand current lcw	kA	0
Conditioned rated short-circuit current Iq kA 4 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Mumber of auxiliary contacts as change-over contact 0 0 Motor drive optional No 0 Motor drive integrated No 0 Voltage release optional No 0 Device construction Built-in device fixed built-in technique Suitable for ground mounting No 0 Suitable for front mounting 4-hole Yes No Suitable for distribution board installation No No Suitable for intermediate mounting No No Colour control element No No Type of control element Yes Black Type of control element Yes Door coupling rotary drive Interlockable Yes Conception Type of electrical connection of main circuit Yes Conception Type of electrica	Rated operation power at AC-23, 400 V	kW	0
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Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for firont mounting centre Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Number of auxiliary contacts as normally closed contact		0
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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 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	Motor drive optional		No
Device construction Built-in device fixed built-in technique No Suitable for ground mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side	Motor drive integrated		No
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Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Yes Yes Yes Yes Type of electrical connection of main circuit Degree of protection (IP), front side	Device construction		Built-in device fixed built-in technique
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Suitable for distribution board installation Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No Black Type of coupling rotary drive Yes Screw connection IP65	Suitable for front mounting 4-hole		Yes
Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No Black Door coupling rotary drive Yes Screw connection IP65	Suitable for front mounting centre		No
Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Black Door coupling rotary drive Yes Screw connection IP65	Suitable for distribution board installation		No
Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Door coupling rotary drive Yes Screw connection IP65	Suitable for intermediate mounting		No
Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Colour control element		Black
Type of electrical connection of main circuit Degree of protection (IP), front side Screw connection 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) Other	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		Other

Approvals

Product Standards	UL 489
UL File No.	E148671
CSA File No.	1342868 (LR12528)
North America Certification	UL listed, CSA certified
Suitable for	Branch circuits, feeder circuits

Dimensions





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

≦ 3 padlocks

Additional product information (links)

L03802006Z (AWA1150-1994) Switch-disconnectors for flush mounting and for rear mounting		
IL03802006Z (AWA1150-1994) Switch- disconnectors for flush mounting and for rear mounting	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03802006Z2018_05.pdf	
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	
Ordering form for SOND switches and SOND front plates(DE_EN)	https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf	
Ordering form for SOND switches and SOND front plates(DE_EN)]	https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf	