DATASHEET - P3-63/V/SVB-SW

Main switch, P3, 63 A, rear mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position



				Powering Business Worldwid
	Part no.	P3-63/V/SVB 060230	-SW	
General specifications				
Product name				Eaton Moeller® series P3 Main switch
Part no.				P3-63/V/SVB-SW
EAN				4015080602309
Product Length/Depth				147 millimetre
Product height				102 millimetre
Product width				87 millimetre
Product weight				0.465 kilogram
Certifications				CE UL CSA Class No.: 3211-05 UL File No.: E36332 VDE 0660 UL Category Control No.: NLRV CSA File No.: 012528 UL 60947-4-1 IEC/EN 60947 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60204 CSA IEC/EN 60204 CSA IEC/EN 60947-3
Product Tradename				P3
Product Type				Main switch
Product Sub Type				None
Catalog Notes				Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions				
Features				Version as maintenance-/service switch Version as main switch
Fitted with:				Black rotary handle and locking ring
Functions				STOP function Interlockable
Locking facility				Lockable in the 0 (Off) position
Number of poles				Three-pole
General information				
Accessories				Auxiliary contact or neutral conductor fitted by user.
Degree of protection				NEMA 12
Degree of protection (front :	side)			IP65
Lifespan, mechanical				100,000 Operations
Mounting method				Rear mounting
Mounting position				As required
Operating frequency				1200 Operations/h
Overvoltage category				
Pollution degree				3
Rated impulse withstand vo	ltage (Uimp)			6000 V AC
Safe isolation	2040 4)			440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 1	3849-1)			B10d values as per EN ISO 13849-1, table C.1
Shock resistance				15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for	a subtra s			Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA)
Climatic environmental				
Ambient operating temperating				-25 °C
Ambient operating tempera	ture - max			50 °C

Ambient operating temperature (enclosed) - min

-25 °C

Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity	1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 14 - 2 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm ² , solid or stranded 2 x (2.5 - 10) mm ² , solid or stranded
Screw size	M5, Terminal screw
Tightening torque	26.5 lb-in, Screw terminals 3 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	640 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	600 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	590 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	340 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	51 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	55 A
Rated operational current (Ie) at AC-3, 500 V	44 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	22.1 A
Rated operational current (le) at AC-21, 440 V	63 A
Rated operational current (Ie) at AC-23A, 230 V	63 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	63 A
Rated operational current (Ie) at AC-23A, 500 V	63 A
Rated operational current (Ie) at AC-23A, 690 V	63 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	63 A
Rated operational current (Ie) at DC-23A, 24 V	50 A
Rated operational current (Ie) at DC-23A, 48 V	50 A
Rated operational current (le) at DC-23A, 60 V	50 A
Rated operational current (Ie) at DC-23A, 120 V	25 A
Rated operational power at AC-3, 380/400 V, 50 Hz	30 kW
Rated operational power at AC-3, 415 V, 50 Hz	30 kW
Rated operational power at AC-3, 500 V, 50 Hz	30 kW
Rated operational power at AC-3, 690 V, 50 Hz	30 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	18.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	30 kW
Rated operational power at AC-23A, 500 V, 50 Hz	45 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational voltage (Ue) at AC - min	690 V
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	63 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	4 kA (Load side) 100 kA (Supply side)
Rated short-time withstand current (Icw)	1.26 kA
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 150A, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	
	80 A gG/gL, Fuse, Contacts
Switching capacity	80 A gG/gL, Fuse, Contacts
Switching capacity Load rating	80 A gG/gL, Fuse, Contacts 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor)
	1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor)
Load rating	1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor)
Load rating Number of contacts in series at DC-23A, 24 V	1.6 x l# (with intermittent operation class 12, 40 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor) 1
Load rating Number of contacts in series at DC-23A, 24 V Number of contacts in series at DC-23A, 48 V	1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor) 1 2

Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, pilot duty)	A600 (UL/CSA)
	P600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	800 A
Voltage per contact pair in series	60 V
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	7.5 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	10 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	40 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	50 HP
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator	
Actuator color	Black
Actuator type	Door coupling rotary drive
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	4.5 W
Rated operational current for specified heat dissipation (In)	63 A
Static heat dissipation, non-current-dependent Pvs	0 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 8.0

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])

Version services Nome of switches Nome of switches<			
Varion as sintry shich Image: Solution No Varion as enverging which No No Numbar of swichs No No Numbar of swichs Sol Sol Rated operation voltage Ue AC Sol Sol Sol approximation	Version as main switch		Yes
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Varian as reversing witch Image: Probability of the second s	Version as safety switch		No
Number of switches Image: special spec	Version as emergency stop installation		No
Ax rated operation voltage U v AC 99 Bated operation voltage U v AC 500 - 660 Bated operation voltage U v AC 500 - 660 Bated operation voltage U v AC A Soltable operation voltage U v AC A Soltable operation voltage U v AC A Soltable of out voltage U v AC A Number of auxiliary contacts as normally obsec contact A Number of auxiliary contacts as change-over contact A Notor diventing voltage A A Notor diventing voltage A A Soltable of norm ununting centre A	Version as reversing switch		No
Rate operament current lu 60-690 Rated permanent current at AC-23,400 V 60 Rated permanent current at AC-23,400 V 60 Rated operation power at AC-3,400 V 60 Soltchine withstand current icw 60 Rated operation power at AC-3,400 V 60 Soltchine withstand current icw 60 Soltchine withstand current icw 60 Number of poles 60 Number of poles 60 Number of auxiliary contacts as normally closed contact 60 Number of auxiliary contacts as normally closed contact 60 Number of auxiliary contacts as normally closed contact 60 Number of auxiliary contacts as normally closed contact 60 Number of auxiliary contacts as normally closed contact 60 Soltchin chron monting 4-b0 60 Subiale for form monting 4-b0 60 Subiale for form monting 4-b0 60	Number of switches		1
Rated permanent current lu A 6 Rated permanent current at AC-23, 400 V A 6 Rated permanent current at AC-23, 400 V A 6 Rated permanent current at AC-23, 400 V A 8 Rated operation power at AC-23, 400 V A 8 Rated operation power at AC-23, 400 V A 8 Switching ower at AC-23, 400 V A 9 Number of auxiliary contacts as normally close contact A 9 Number of auxiliary contacts as normally close contact 9 </td <td>Max. rated operation voltage Ue AC</td> <td>V</td> <td>690</td>	Max. rated operation voltage Ue AC	V	690
Reter permanent current at AC-23, 400 V Reter permanent current at AC-21, 400 V Reter permanent current at AC-21, 400 V Reter permanent current at AC-21, 400 V Reter permanent current at AC-23, 400 V Reter permanent current at A	Rated operating voltage	V	690 - 690
Rate germanent current at AC-21, 400 V Image: Rate germanent current tack 3, 400 V Image: Rate deperation power at AC-3, 400 V Image: Rate deperation power at AC-23, 400 V <td>Rated permanent current lu</td> <td>А</td> <td>63</td>	Rated permanent current lu	А	63
Rate operation power at AC-3, 400 V Image: space operation power at AC-33, 400 V Image: space operation power at AC-34, 400 V <td>Rated permanent current at AC-23, 400 V</td> <td>А</td> <td>63</td>	Rated permanent current at AC-23, 400 V	А	63
Reled short-time withstand current low Reled short-time with short current low Reled short current low	Rated permanent current at AC-21, 400 V	А	63
Rete operation power at AC-23, 400 V IM IM IM Switching power at 400 V IM IM Image: Control operation	Rated operation power at AC-3, 400 V	kW	30
Nuclei of power at 400 VImage: Note of additioned rated short-circuit current IqImage: Note of additioned rated short-current IqImage: Note of additit current IqImage: Note o	Rated short-time withstand current lcw	kA	1.26
Condition and short-circuit current lq Mage Mathematication and short-circuit current lq Mage Mathematication and short-circuit current lq Mathematication and short-current lq Mathematication and short-current lq Mathematication and short-current lq Mathematication and short-current lq Mathematication and short-curent lq Mathematication and short-current lq	Rated operation power at AC-23, 400 V	kW	30
Number of pulse 3 Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally cope contact 0 Number of auxiliary contacts as normally contact 0 Not contact 0 Not contact 0 Not contact 0 Natale for find monting entre 0 Suitale for instribution board installation 0 Nore contenting entret 0 </td <td>Switching power at 400 V</td> <td>kW</td> <td>30</td>	Switching power at 400 V	kW	30
Amber 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 No Suitable for floor mounting Yes Suitable for from mounting entre No Suitable for instruction of main time difference No Suitable for instruction Yes Suitable for instruction No Suitable for instruction Yes Suitable for instruction difference No Suitable for instruction difference Since Suitable for instruction difference Since Suitable for instr	Conditioned rated short-circuit current Iq	kA	100
Number of auxiliary contacts as normally open contact Image: Sector of	Number of poles		3
Number of auxiliary contacts as change-over contact Image: Contact of the sector o	Number of auxiliary contacts as normally closed contact		0
Motor drive optional No Motor drive integrated No Voltage release optional No Device construction No Device construction Built- in device fixed built- in technique Suitable for floor mounting Yes Suitable for front mounting centre No Suitable for front mounting centre No Suitable for intermediate mounting Yes Suitable for intermediate mounting No Suitable for fort neunting No Suitable for intermediate mounting Yes Suitable for intermediate mounting No Suitable for intermediate mounting Yes Suitable for intermediate mounting <t< td=""><td>Number of auxiliary contacts as normally open contact</td><td></td><td>0</td></t<>	Number of auxiliary contacts as normally open contact		0
Motor drive integratedNoVoltage release optionalNoDevice constructionBuilt- in device fixed built-in techniqueSuitable for floor mountingSecSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for intermediate mountingSecSuitable for intermediate mountingSec	Number of auxiliary contacts as change-over contact		0
Voltage release optionalNoDevice constructionBuilt-in device fixed built-in techniqueSuitable for floor mounting 4-holeYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationMoSuitable for intermediate mountingMoColour control elementMoType of control elementServe connection of main circuitType of electrical connection of main circuitMoDegree of protection (IP), front sideMoMoMoMoMoMoMoMoMoMoMoSuitable for intermediate mountingMo </td <td>Motor drive optional</td> <td></td> <td>No</td>	Motor drive optional		No
Device constructionBildDevice constructionBild-in device fixed built-in techniqueSuitable for floor mounting 4-holeYesSuitable for front mounting centreNoSuitable for fixet built-in techniqueNoSuitable for distribution board installationSectorSuitable for intermediate mountingSectorSuitable for inte	Motor drive integrated		No
Suitable for floor mounting Fee Suitable for fnot mounting 4-hole Fee Suitable for front mounting centre No Suitable for distribution board installation Fee Suitable for intermediate mounting Fee	Voltage release optional		No
Suitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementNoType of control elementBlackInterlockableVorType of electrical connection of main circuitSectionDegree of protection (IP), front sideSectionSuitable for intermediateSectionSuitable for intermediateSection <t< td=""><td>Device construction</td><td></td><td>Built-in device fixed built-in technique</td></t<>	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centreNoSuitable for distribution board installationImage: Comparison of the stallationSuitable for intermediate mountingImage: Comparison of the stallationSuitable for intermediate mountingImage: Comparison of the stallationColour control elementImage: Comparison of the stallationType of control elementImage: Comparison of the stallationInterlockableImage: Comparison of the stallation of the stallationType of electrical connection of main circuitImage: Comparison of the stallation of	Suitable for floor mounting		Yes
Suitable for distribution board installation Image: Control element No Suitable for intermediate mounting Image: Control element No Colour control element Image: Control element Black Type of control element Image: Control element Door coupling rotary drive Interlockable Yes Screw connection Type of electrical connection of main circuit Image: Control element Screw connection Degree of protection (IP), front side Image: Control element Image: Control element	Suitable for front mounting 4-hole		No
Suitable for intermediate mountingMoSuitable for intermediate mountingNoColour control elementBlackType of control elementDor coupling rotary driveInterlockableYesType of electrical connection of main circuitSocrew connectionDegree of protection (IP), front sideSocrew connection	Suitable for front mounting centre		No
Colour control elementBackType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitSorew connectionDegree of protection (IP), front sideSorew 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 Image: Screw connection	Suitable for intermediate mounting		No
Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Image: Screw connection	Colour control element		Black
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