Main switch, P5, 160 A, rear mounting, 3 pole + N, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position



Part no. P5-160/V/SVB-SW/N 280933

General specifications	
Product name	Eaton Moeller® series P5 Main switch
Part no.	P5-160/V/SVB-SW/N
EAN	4015082809331
Product Length/Depth	150 millimetre
Product height	150 millimetre
Product width	130 millimetre
Product weight	1.606 kilogram
Compliances	CE Marked
Certifications	IEC 60947 EN 60947-3 UL 508 CSA Std. C22.2 No. 14-05 VDE CSA CSA-C22.2 No. 14-05 UL File No.: E36332 IEC/EN 60204 CSA-C22.2 No. 94 VDE 0660 CE IEC/EN 60947-3 IEC/EN 60947 UL Category Control No.: NLRV, NLRV7 UL CSA File No.: 223805 CSA Class No.: 3211-05
Product Tradename	P5
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 main switch Version as maintenance-/service switch
Fitted with:	Black rotary handle and locking ring
Functions	STOP function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	4
eneral information	
Accessories	Auxiliary contact 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	50 Operations/h
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	8000 V AC
Safe isolation	440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Suitable for	Intermediate mounting Branch circuits, suitable as motor disconnect, (UL/CSA)
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C

Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30
	Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity	2 x 25 mm², flexible with ferrules to DIN 46228 2 x 35 mm², solid or stranded 1 x 13 x 3 mm Number of segments x width x thickness, copper strip 2 x 13 x 1.5 mm Number of segments x width x thickness, copper strip 2/0 AWG, flexible 1 x 95 mm², solid or stranded 1 x 70 mm², flexible with ferrules to DIN 46228 3/0 AWG, solid or flexible conductor with ferrule
Screw size	5 mm AF, Hexagon socket-head spanner, Terminal screw
Tightening torque	125 lb-in, Screw terminals 14 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	900 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	850 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	850 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	103 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	85 A
Rated operational current (Ie) at AC-3, 500 V	80 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	42 A
Rated operational current (Ie) at AC-21, 440 V	160 A
Rated operational current (Ie) at AC-23A, 230 V	103 A
Rated operational current (le) at AC-23A, 400 V, 415 V	105 A
Rated operational current (Ie) at AC-23A, 500 V	106 A
Rated operational current (Ie) at AC-23A, 690 V	42 A
Rated operational current (Ie) at DC-1, load-break switches $I/r = 1 \text{ ms}$	160 A
Rated operational current (Ie) at DC-23A, 24 V	160 A
Rated operational current (Ie) at DC-23A, 48 V	160 A
Rated operational current (Ie) at DC-23A, 60 V	160 A
Rated operational current (Ie) at DC-23A, 120 V	50 A
Rated operational power at AC-3, 380/400 V, 50 Hz	45 kW
Rated operational power at AC-3, 415 V, 50 Hz	45 kW
Rated operational power at AC-3, 500 V, 50 Hz	55 kW
Rated operational power at AC-3, 690 V, 50 Hz	37 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	30 kW
Rated operational power at AC-23A, 400 V, 50 Hz	55 kW
Rated operational power at AC-23A, 500 V, 50 Hz	75 kW
Rated operational power at AC-23A, 690 V, 50 Hz	37 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	160 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	30 kA
Rated short-time withstand current (Icw)	3 kA 3 kA, Contacts, 1 second
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 400A Class RK1, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	65 kA, SCCR (UL/CSA) 300 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	160 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	2 x l# (with intermittent operation class 12, 25 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor)

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Neither of contacts in sense si DC-204, TBV	Number of contacts in series at DC-23A, 48 V	3
Svicting capacity leanine contacts, general use) Svicting capacity leanines contacts, general use) Svicting capacity leanines contacts, general used Svicting capacity leanines contacts general used Svicting capacity leanines contacts general used Svicting capacity leanines contacts general used to the special capacity of the special	Number of contacts in series at DC-23A, 60 V	3
Switching capacity justifiary contacts, general used Switching capacity justifiary contacts, general used Switching capacity justifiary contacts, general used Switching capacity justifiary to sell Wirk cap in its DCCN-000-73 Voltage per contact pair in saries Motor rating Assigned motor power at 115/12 V, 65 NL, 1-plase Assigned motor power at 115/12 V, 65 NL, 1-plase Assigned motor power at 115/12 V, 65 NL, 1-plase Assigned motor power at 2002-00 V, 66 NL, 1-plase Assigned motor power at 2	Number of contacts in series at DC-23A, 120 V	3
Switching capacity (sausilary contests, plot dayl) Riand mailing capacity via to 80 V Voca shi to ECRN 69817-31 Activate per contest pair is swises Activated manufacture of the Contest	Switching capacity (main contacts, general use)	200 A, Rated uninterrupted current max. (UL/CSA)
Headed making sepaciting on set 960 Vices plan to IECEN ISBNT-31 Voltage per contact parm is resident Assigned moter power at ITSNT2 V.G. Bit., T-phase Assigned moter power at ITSNT2 V.G. Bit., T-phase Assigned moter power at 2007 V.G. Bit., T-phase District power at 2007 V.G. Bit., T-phase Assigned moter power at 2007 V.G. Bit., T-phase Bit., T-phase District power at 2007 V.G. Bit., T-phase District power 2007 V.G. Bit., T-phase Bit., T-phase District power 2007 V.G. Bit., T-phase Bit., T-phase District power 2007 V.G. Bit., T-phase Bit., T-phase District power 2007 V.G. Bit., T-phase Bit., T-phase Distr	Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Vehage per contact pair in sories Motor rating Assigned motor power at 119/120 V 50 Hz. 1-plase Assigned motor power at 119/120 V 50 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Assigned motor power at 120/100 V 100 Hz. 1-plase Corract circuit reliability I failure per 199,000 evercting operations statistically determined, at 24 V DC, 10 Hz. Number of sucklary centracts formally count contacts) Number of sucklary centracts formally count contacts) Actuator color Actuator troub Actuator try Actuator color Actuator try Actuator color Actuator try Actuator try Actuator color Actuator try Actuator try Actuator color Actuator try Actuator Actuator try Actuator Actuator Actuator Actuator Actu	Switching capacity (auxiliary contacts, pilot duty)	A600 (UL/CSA)
Assigned motor power at 119/13V V-00 Hz, 1-phases Assigned motor power at 119/13V V-00 Hz, 1-phases Assigned motor power at 119/13V V-00 Hz, 2-phases Assigned motor power at 210/24V V-00 Hz, 2-phase Assigned motor power at 210/2	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	1050 A
Assigned mixer power at 115/128 V 59 Hz, 1-phase Assigned mixer power at 155/128 V 59 Hz, 1-phase Assigned mixer power at 2024/84 V 59 Hz, 1-phase Assigned mixer power at 2024/84 V 50 Hz, 1-phase Assigned mixer power at 2024/84 V 50 Hz, 1-phase Assigned mixer power at 2024/84 V 50 Hz, 3-phase On HP Assigned mixer power at 2578/80 V 50 Hz, 3-phase ON HP Assigned mixer power at 2578/80 V 50 Hz, 3-phase ON HP Assigned mixer power at 2578/80 V 50 Hz, 3-phase ON HP Contracts: Control circuit reliability I failure part 1800/05 existence generations statistically determinent, at 24 V 50, 10 mg/s Number of auxiliary contracts february at 25 Mg 50 Mg 70 Mg	Voltage per contact pair in series	42 V
Assigned motor power at CSQ 90 (90 Kg 1, phase 29 HP Assigned motor power at 200 Kg 19 Kg 1, phase 29 HP Assigned motor power at 200 Kg 19 Kg 1, phase 39 HP Assigned motor power at 200 Kg 19 Kg 1, phase 39 HP Assigned motor power at 200 Kg 19 Kg 1, phase 39 HP Assigned motor power at 200 Kg 19 Kg 1, phase 39 HP Assigned motor power at 200 Kg 19 Kg 1, phase 39 HP Assigned motor power at 200 Kg 19 Kg	Motor rating	
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Assigned motor power at 200/28 V, 80 Hz, 3-phase 25 HP Assigned motor power at 275 W SH, 1-phase 25 HP Assigned motor power at 575 W SH, 1-phase 25 HP Assigned motor power at 575 W SH, 1-3-phase 25 HP Contacts Contact circuit reliability Member of auxiliary contacts (change-over contacts) Number of auxiliary dive	Assigned motor power at 115/120 V, 60 Hz, 3-phase	20 HP
Assigned motor power at \$277 V, 00 Hz, 1-phase Assigned motor power at \$277 V, 00 Hz, 1-phase Assigned motor power at \$75,000 V, 00 Hz, 3-phase Contacts Control circuit reliability Control circuit reliability Number of auxiliary contacts (humps-over contacts) Number of auxiliary contacts (humps-over contacts) Number of auxiliary contacts (normally clased contacts) Number of auxiliary contacts (normally clased contacts) Number of auxiliary contacts (normally clased contacts) Actuator Actuator Actuator Land Control Actuator Land Control Actuator Land Control Equipment hear dissipation, capacity Prisis Heart dissipation, pre-control dependent Prid Equipment heart dissipation, non-current dependent Prid Heart dissipation open July dependent Prid Struck Land dissipation, non-current dependent Prid Struck Land dissipation, non-current dependent Prid Heart dissipation open July dependent Prid Struck Land dissipation, non-current dependent Prid Heart dissipation on otherwinal stability of enclosures Meets the product standard's requirements. 102.31 Verification of thermal stability of enclosures Meets the product standard's requirements. 102.32 Verification of resistance of insulation generated to normal heat 102.32 Verification of resistance of insulation generated to normal heat 102.33 Resistance to ultra-valed (UV) radiation 102.5 Ultra 102.6 Mechanical impact Oes not apply, since the entire switchgare meets to be evaluated. 103 Degree of protection of assemblies Meets the product standard's requirements. 104 Deservacion and creepage distances Meets the product standard's requirements. 105 Protection apply, since the entire switchgare meets to be evaluated. 106 Decreptoration of assemblies 107 Deservacion of assemblies Meets the product standard's requirements. 108 Deservacion of assemblies 109 Deservacion of assemblies 109 Deservacion of assemblies Meets the product standard's requirements. 1010 Deservacion of assemblies 1010 Deservacion of assemblies 1010 Deservacion	Assigned motor power at 230/240 V, 60 Hz, 1-phase	25 HP
Assigned motor power at \$15\text{\text{NSW V, OD Hz, 3-phase}}} So HP Contacts Control circuit reliability Number of auxiliary contacts (change-over contacts) Number of auxiliary contact	Assigned motor power at 230/240 V, 60 Hz, 3-phase	40 HP
Assigned motor power at 575/000 V, 60 Hz, 3-phases Control circuit reliability Number of auxiliary contracts (change-over contracts) Number of auxiliary contracts (normally closed contracts) Number of auxiliary contracts (normally closed contracts) Number of auxiliary contracts (normally closed contracts) Actuator Actuator Actuator Black Actuator Pope Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdias Heat dissipation on polic, current-dependent Pvid Past and dependent pride product standard is requirements. 102.21 Verification of thermal stability of enclosures 102.22 Verification of thermal stability of enclosures 102.23 Verification of thermal stability of enclosures 102.23 Verification of thermal stability of enclosures 102.24 Verification of thermal stability of enclosures 102.25 Verification of thermal stability of enclosures 102.25 Verification of thermal stability of enclosures 102.25 Verification of resistance of insulating materials to normal heat 102.26 Resistance to ultra-violet (UV) radiation 102.25 Utrification of resistance of insulating materials to normal heat 102.26 Verification of resistance of insulating materials to normal heat 102.26 Resistance to ultra-violet (UV) radiation 102.26 Utrification of resistance of insulating materials to normal heat 102.26 Resistance to ultra-violet (UV) radiation 102.26 Utrification of encountered to the entire existict perments. 102.27 Rescriptions 102.28 Resistance to ultra-violet (UV) radiation 102.29 Rescriptions 102.20 Respective on paints electric shock 102.20 Respective on paints electric shock 102.20 Respective on paints electric shock 103.24 Resistance of ultra-violet (UV) radiation 104.25 Protection of assemblies 105.45 Protection against electric shock 106.45 Protection of security and components 107. Internal electrical circuits and commercions 108.25 Protection of security and components 109.25 Protection of security and components 109.25 Protection of	Assigned motor power at 277 V, 60 Hz, 1-phase	25 HP
Control circuit reliability Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (narmaly closed contacts) Number of auxiliary contacts (narmaly closed contacts) Number of auxiliary contacts (narmaly closed contacts) Actuator color Actuator color Actuator type Doer coupling retary drive Posign verification Equipment heat dissipation, current-dependent Pvid Heat dissipation apacity Pdias Wheat dissipation apacity Pdias Heat dissipation apacity Pdias Wheat dissipation apacity Pdias Wheat dissipation capacity Pdias Wheat dissipation of resistance of insulating materials to normal heat 10.2.3.1 Verification of thermal stability of enclosures Wheat the product standard's requirements. Wh	Assigned motor power at 460/480 V, 60 Hz, 3-phase	60 HP
Control circult reliability Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (change over contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (norm	Assigned motor power at 575/600 V, 60 Hz, 3-phase	60 HP
Mumber of auxiliary contacts (change over contacts) Number of auxiliary contacts (normally classed contacts) Number of auxiliary contacts (normally open contacts) Actuator	Contacts	
Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally open contacts) Actuator Actuator V Actuator V Actuator V Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdits Read operational current of specified heat dissipation (In) Static heat dissipation of the mine stability of enclosures 10.2.3 Varification of the mine stability of enclosures 10.2.3 Parisity of the violation of the mine stability of enclosures 10.2.3 Varification of the mine stability of enclosures 10.2.3 Parisity of the violation of the mine stability of enclosures 10.2.3 Parisity of the violation of the mine stability of enclosures 10.2.3 Parisity of the violation of the mine stability of enclosures 10.2.3 Parisity of the violation of the mine stability of enclosures 10.2.3 Parisity of the violation of the mine stability of enclosures 10.2.3 Parisity of the violation of the mine stability of enclosures 10.2.3 Parisity of the violation of the product standard is requirements. 10.2.3 Parisity of enclosures 10.2.4 Resistance to ultra-violat (IV) radiation 10.2.5 Lifting 10.2.6 Machanical impact 10.2.7 Internal electrical impact 10.2.8 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and components 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.1 Short-circuit rating	Control circuit reliability	1 failure per 100,000 switching operations statistically determined. at 24 V DC. 10
Number of auxiliary contacts (normally closed contacts) Actuator Actuator Olor Actuator Operations of switching devices and components Black Actuator Yee Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Static heat dissipation per pole, current-dependent Pvid Reted operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvid Reted operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvid Reted operational current for specified heat dissipation (In) 10.2.3 Verification of thermal stability of enclosures 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Resistance to ultra-violet (IV) radiation 10.2.3 Resistance to ultra-violet (IV) radiation 10.2.4 Resistance to ultra-violet (IV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Internal electric of assemblies 10.3 Degree of protection of assemblies 10.4 Clierances and creepage distances 10.5 Protection against electric shock 10.6 Renormal electrical circuits and components 10.7 Internal electrical circuits and components 10.8 Concentions for external conductors 10.8 Repeated builder's responsibility, 10.9.4 Persiting of enclosures made of insulating material 10.10 Temperature rise The panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. 10.11 Short-circuit rating Checken compatibility Step and builder's responsibility. 10.11 Short-circuit rating Checken compatibility Step and builder's responsibility. 10.11 Short-circuit rating Checken compatibility Letter the switchgear must be observed. 10.11 Short-circuit rating Checken compatibility Letter the switchgear must be observed.		• • • • • • • • • • • • • • • • • • • •
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	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be
leaflet (IL) is observed.	10.13 Mechanical function	The device meets the requirements, provided the information in the instruction

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])

[AKF060013])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		No
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	160
Rated permanent current at AC-23, 400 V	Α	160
Rated permanent current at AC-21, 400 V	Α	160
Rated operation power at AC-3, 400 V	kW	45
Rated short-time withstand current lcw	kA	3
Rated operation power at AC-23, 400 V	kW	55
Switching power at 400 V	kW	55
Conditioned rated short-circuit current Iq	kA	30
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 floor mounting		No
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Colour control element		Black
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Frame clamp
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12