

# Specifications

## Eaton 255906

Eaton Eaton Moeller® series P3 Main switch, P3, 100 A, surface mounting, 3 pole, 1 N/O, 1 N/C, STOP function, With black rotary handle and locking ring, UL/CSA

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series P3 Main switch
<b>CATALOG NUMBER</b>	255906
<b>MODEL CODE</b>	P3-100/I5/SVB-SW/HI11-NA
<b>EAN</b>	4015082559069
<b>PRODUCT LENGTH/DEPTH</b>	169 mm
<b>PRODUCT HEIGHT</b>	280 mm
<b>PRODUCT WIDTH</b>	200 mm
<b>PRODUCT WEIGHT</b>	1.54 kg
<b>CERTIFICATIONS</b>	UL Listed IEC/EN 60947 VDE 0660 CE CSA IEC/EN 60947-3 CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1-14 UL CSA File No.: 012528 CSA-C22.2 No. 94 UL 60947-4-1 UL Category Control No.: NLRV UL File No.: E36332 IEC/EN 60204
<b>GLOBAL CATALOG</b>	255906



Powering Business Worldwide

## Product specifications

<b>TYPE</b>	Main switch
<b>PRODUCT CATEGORY</b>	Main switch
<b>FEATURES</b>	Version as maintenance- /service switch Version as main switch
<b>ACTUATOR COLOR</b>	Black
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	UV resistance only in connection with protective shield.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.

<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FITTED WITH:</b>	Black rotary handle and locking ring
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>RATED PERMANENT CURRENT AT AC-21, 400 V</b>	100 A
<b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>	100 A
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	100 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>SWITCHING POWER AT 400 V</b>	55 kW
<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V
<b>ACCESSORIES</b>	Auxiliary contact or neutral conductor fitted by

	user.
<b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	45 kW
<b>DEVICE CONSTRUCTION</b>	Complete device in housing
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	2 kA
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>MOUNTING POSITION</b>	As required
<b>ACTUATOR TYPE</b>	Door coupling rotary drive
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °C
<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>	5 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE</b>	10 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>	20 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>	15 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>	25 HP
<b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>	60 HP
<b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>	75 HP
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	7.5 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER</b>	7.5 W

<b>POLE, CURRENT-DEPENDENT PVID</b>	
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	4 kA (Load side) 80 kA (Supply side)
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONTROL CIRCUIT RELIABILITY</b>	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>NUMBER OF POLES</b>	3
<b>MOUNTING METHOD</b>	Surface mounting
<b>DEGREE OF PROTECTION</b>	NEMA 12
<b>SUITABLE FOR</b>	Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting
<b>FUNCTIONS</b>	STOP function Interlockable
<b>NUMBER OF SWITCHES</b>	1
<b>SAFE ISOLATION</b>	440 V AC, Between the contacts, According to EN 61140
<b>SCREW SIZE</b>	M5, Terminal screw
<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
<b>LIFESPAN, MECHANICAL</b>	100,000 Operations
<b>LOAD RATING</b>	1.3 × I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor) 2 × I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor) 1.6 × I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	10A, IU, (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS,</b>	A600 (UL/CSA) P600 (UL/CSA)

<b>PILOT DUTY)</b>	
<b>TERMINAL CAPACITY</b>	2 x (2.5 - 10) mm <sup>2</sup> , solid or stranded 1 x (1.5 - 25) mm <sup>2</sup> , flexible with ferrules to DIN 46228 14 - 2 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm <sup>2</sup> , flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm <sup>2</sup> , solid or stranded
<b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>	100 A, If used with neutral conductor IU = max. 90 A, Rated uninterrupted current max. (UL/CSA)
<b>SAFETY PARAMETER (EN ISO 13849-1)</b>	B10d values as per EN ISO 13849-1, table C.1
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>	3
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V</b>	2
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>	2
<b>RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)</b>	760 A
<b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b>	740 A
<b>RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)</b>	880 A
<b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b>	520 A
<b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b>	950 A
<b>RATED OPERATING VOLTAGE (UE) - MAX</b>	690 V
<b>RATED OPERATING VOLTAGE (UE) - MIN</b>	690 V
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>SHORT-CIRCUIT CURRENT</b>	150A, max. Fuse, SCCR

<b>RATING (BASIC RATING)</b>	(UL/CSA) 10 kA, SCCR (UL/CSA)
<b>SHORT-CIRCUIT PROTECTION RATING</b>	100 A gG/gL, Fuse, Contacts
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V</b>	100 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V</b>	100 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>	100 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>	96 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>	68 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>	71 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	71 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>	65 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>	23.8 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS</b>	100 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>	25 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>	50 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>	50 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>	50 A
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	100 A
<b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>	30 kW

<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	55 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>	55 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>	55 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	37 kW
<b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>	37 kW
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	37 kW
<b>TIGHTENING TORQUE</b>	3 Nm, Screw terminals 26.5 lb-in, Screw terminals
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
<b>RATED SWITCHING CAPACITY</b>	10 HP at 200 V AC, single- phase 15 HP at 240 V AC, single- phase 20 HP at 200 V AC, three- phase 25 HP at 240 V AC, three- phase 5 HP at 120 V AC, single- phase 60 HP at 480 V AC, three- phase 75 HP at 600 V AC, three- phase
<b>HOUSING COLOR</b>	Black
<b>HOUSING MATERIAL</b>	Plastic

## Resources

BROCHURES	<a href="#">Brochure - T Rotary Cam switch and P Switch-disconnector</a>
CATALOGS	<a href="#">P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-main-switch-declaration-of-conformity-uk251293en.pdf</a> <a href="#">eaton-main-switch-declaration-of-conformity-eu250810en.pdf</a>
DRAWINGS	<a href="#">eaton-rotary-switches-p3-main-switch-dimensions-010.eps</a>



	<a href="#">eaton-general-totally-insulated-t0-main-switch-symbol.eps</a> <a href="#">eaton-general-switch-t0-main-switch-symbol.eps</a> <a href="#">eaton-rotary-switches-t0-main-switch-symbol.eps</a>
ECAD MODEL	<a href="#">DA-CE-ETN.P3-100_I5_SVB-SW_HI11-NA</a>
INSTALLATION VIDEOS	<a href="#">Eaton's P Switch-disconnectors used in a factory</a>
MCAD MODEL	<a href="#">DA-CD-bauform15</a> <a href="#">DA-CS-bauform15</a>
PRODUCT NOTIFICATIONS	<a href="#">MZ008005ZU_Orderform_Customized_Switch.pdf</a> <a href="#">MZ008006ZU_Orderform_Customized_Switch.pdf</a>
SPECIFICATIONS AND DATASHEETS	<a href="#">Eaton Specification Sheet - 255906</a>
WIRING DIAGRAMS	<a href="#">eaton-rotary-switches-contact-p1-main-switch-wiring-diagram.eps</a>

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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