

# Specifications

Photo is representative

## Eaton 207296

Eaton Moeller® series P1 Main switch, P1, 25 A, surface mounting, 3 pole + N, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series P1 Main switch
<b>CATALOG NUMBER</b>	207296
<b>MODEL CODE</b>	P1-25/I2/SVB-SW/N
<b>EAN</b>	4015082072964
<b>PRODUCT LENGTH/DEPTH</b>	115 mm
<b>PRODUCT HEIGHT</b>	180 mm
<b>PRODUCT WIDTH</b>	100 mm
<b>PRODUCT WEIGHT</b>	0.485 kg
<b>COMPLIANCES</b>	CE Marked
<b>CERTIFICATIONS</b>	IEC 60947 EN 60947-3 CSA Std. C22.2 No. 14-05 UL 508 VDE CSA-C22.2 No. 60947-4-1-14 IEC/EN 60204 CSA-C22.2 No. 94 IEC/EN 60947 UL File No.: E36332 CE CSA File No.: 012528 UL VDE 0660 CSA CSA Class No.: 3211-05 IEC/EN 60947-3 UL 60947-4-1 UL Category Control No.: NLRV
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>GLOBAL CATALOG</b>	207296
<b>PRODUCT TYPE</b>	Main switch



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## Product specifications

<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</b>	Does not apply, since the

<b>PROTECTION OF ASSEMBLIES</b>	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>	25 A
<b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>	25 A
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	25 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>SWITCHING ANGLE</b>	90 °
<b>SWITCHING POWER AT 400 V</b>	13 kW
<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V
<b>ACCESSORIES</b>	Auxiliary contact fitted by user.

<b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	7.5 kW
<b>DEVICE CONSTRUCTION</b>	Complete device in housing
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	0.64 kA 640 A, Contacts, 1 second
<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>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	1.1 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	1.1 W
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	50 kA
<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>	4
<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>LOCKING FACILITY</b>	Lockable in the 0 (Off) position
<b>FUNCTIONS</b>	Interlockable STOP function
<b>NUMBER OF SWITCHES</b>	1
<b>SAFE ISOLATION</b>	440 V AC, Between the contacts, According to EN 61140
<b>SCREW SIZE</b>	M4, 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>	300,000 Operations
<b>LOAD RATING</b>	2 x $I_e$ (with intermittent operation class 12, 25 % duty factor) 1.6 x $I_e$ (with intermittent operation class 12, 40 % duty factor) 1.3 x $I_e$ (with intermittent operation class 12, 60 % duty factor)
<b>TERMINAL CAPACITY</b>	1 x (1 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228 1 x (1.5 - 6) mm <sup>2</sup> , solid or stranded 2 x (1 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm <sup>2</sup> , solid or stranded
<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>	0
<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>	190 A
<b>RATED BREAKING</b>	150 A

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**CAPACITY AT 400/415 V  
(COS PHI TO IEC 60947-3)**

**RATED BREAKING**

**CAPACITY AT 500 V (COS  
PHI TO IEC 60947-3)** 170 A

**RATED BREAKING**

**CAPACITY AT 660/690 V  
(COS PHI TO IEC 60947-3)** 150 A

**RATED MAKING**

**CAPACITY UP TO 690 V  
(COS PHI TO IEC/EN  
60947-3)** 240 A

**RATED OPERATING**

**VOLTAGE (UE) - MAX** 690 V

**RATED OPERATING**

**VOLTAGE (UE) - MIN** 690 V

**RATED OPERATIONAL**

**VOLTAGE (UE) AT AC -  
MAX** 690 V

**SHORT-CIRCUIT**

**PROTECTION RATING** 25 A gG/gL, Fuse, Contacts

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-21,  
440 V** 25 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-23A,  
230 V** 25 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-23A,  
400 V, 415 V** 25 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-23A,  
500 V** 17.4 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-23A,  
690 V** 12.6 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-3,  
220 V, 230 V, 240 V** 19.6 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-3,  
380 V, 400 V, 415 V** 15.2 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-3,  
500 V** 12.1 A

**RATED OPERATIONAL**

**CURRENT (IE) AT AC-3,  
660 V, 690 V** 8.8 A

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-1,  
LOAD-BREAK SWITCHES  
L/R = 1 MS** 25 A

**RATED OPERATIONAL**  
**CURRENT (IE) AT DC-23A, 12 A**  
**120 V**

**RATED OPERATIONAL**  
**CURRENT (IE) AT DC-23A, 25 A**  
**24 V**

**RATED OPERATIONAL**  
**CURRENT (IE) AT DC-23A, 25 A**  
**48 V**

**RATED OPERATIONAL**  
**CURRENT (IE) AT DC-23A, 25 A**  
**60 V**

**RATED OPERATIONAL**  
**CURRENT FOR SPECIFIED 25 A**  
**HEAT DISSIPATION (IN)**

**RATED OPERATIONAL**  
**POWER AT AC-23A, 5.5 kW**  
**220/230 V, 50 Hz**

**RATED OPERATIONAL**  
**POWER AT AC-23A, 400 V, 13 kW**  
**50 Hz**

**RATED OPERATIONAL**  
**POWER AT AC-23A, 500 V, 11 kW**  
**50 Hz**

**RATED OPERATIONAL**  
**POWER AT AC-23A, 690 V, 11 kW**  
**50 Hz**

**RATED OPERATIONAL**  
**POWER AT AC-3, 380/400 7.5 kW**  
**V, 50 Hz**

**RATED OPERATIONAL**  
**POWER AT AC-3, 415 V, 50 7.5 kW**  
**Hz**

**RATED OPERATIONAL**  
**POWER AT AC-3, 690 V, 50 7.5 kW**  
**Hz**

**TIGHTENING TORQUE** 14.1 lb-in, Screw terminals  
1.6 Nm, Screw terminals

**UNINTERRUPTED CURRENT** Rated uninterrupted current  $I_u$  is specified for max. cross-section.

**HOUSING COLOR** Black

**HOUSING MATERIAL** Plastic

## Resources

**BROCHURES** [Brochure - T Rotary Cam switch and P Switch-disconnector](#)

**CATALOGS** [P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN](#)

[P1-40 Switch-disconnectors](#)

DECLARATIONS OF CONFORMITY	<a href="#">eaton-on-off-switch-declaration-of-conformity-uk251288en.pdf</a> <a href="#">eaton-on-off-switch-declaration-of-conformity-eu250805en.pdf</a>
DRAWINGS	<a href="#">eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps</a> <a href="#">eaton-rotary-switches-surface-mounting-p1-main-switch-dimensions.eps</a> <a href="#">eaton-rotary-switches-t0-main-switch-symbol.eps</a> <a href="#">eaton-general-switch-t0-main-switch-symbol.eps</a> <a href="#">eaton-general-totally-insulated-t0-main-switch-symbol.eps</a> <a href="#">eaton-rotary-switches-surface-mounting-t0-main-switch-3d-drawing.eps</a>
ECAD MODEL	<a href="#">ETN.207296.edz</a>
INSTALLATION VIDEOS	<a href="#">Eaton's P Switch-disconnectors used in a factory</a>
MCAD MODEL	<a href="#">DA-CS-bauform5 DA-CD-bauform5</a>
PEP ECO-PASSPORT	<a href="#">EATO-00156-V01.01-EN.pdf</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 - 207296</a>
WIRING DIAGRAMS	<a href="#">eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram-002.eps</a>

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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