

## Eaton 207304

Eaton Moeller® series P1 ON-OFF switches, P1, 25 A, surface mounting, 3 pole, with black thumb grip and front plate, Cylinder lock SVA

PRODUCT NAME	Eaton Moeller® series P1 On-off switch
CATALOG NUMBER	207304
PRODUCT LENGTH/DEPTH	126 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.538 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947-3 IEC/EN 60947 IEC/EN 60204

<b>TYPE</b>	ON-OFF switch
<b>PRODUCT CATEGORY</b>	Switch with locking mechanism
<b>ACTUATOR COLOR</b>	Red
<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

<a href="#">IL03801015Z</a>	
<a href="#">eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps</a>	
<a href="#">eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps</a>	

	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 thumb grip and front plate
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<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 POWER AT 400 V</b>	13 kW

<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V
<b>ACCESSORIES</b>	<ul style="list-style-type: none"> <li>• 2 keys included with supplied equipment.</li> <li>• Auxiliary contact or neutral conductor fitted by user.</li> </ul>
<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>	Short thumb-grip
<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>	80 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>	3
<b>MOUNTING METHOD</b>	Surface mounting
<b>DEGREE OF PROTECTION</b>	NEMA 12
<b>SUITABLE FOR</b>	Ground mounting
<b>LOCKING FACILITY</b>	Lockable in the 0 (Off) position
<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>LOCKING MECHANISM</b>	Cylinder lock SVA
<b>LOAD RATING</b>	<p>1.6 x I<sub>e</sub> (with intermittent operation class 12, 40 % duty factor)</p> <p>1.3 x I<sub>e</sub> (with intermittent operation class 12, 60 % duty factor)</p> <p>2 x I<sub>e</sub> (with intermittent operation class 12, 25 % duty factor)</p>
<b>TERMINAL CAPACITY</b>	<p>1 x (1 - 4) mm<sup>2</sup>, flexible with ferrules to DIN 46228</p> <p>2 x (1 - 4) mm<sup>2</sup>, flexible with ferrules to DIN 46228</p> <p>1 x (1.5 - 6) mm<sup>2</sup>, solid or stranded</p> <p>2 x (1.5 - 6) mm<sup>2</sup>, solid or stranded</p>
<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</b>	3

**V****NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 24 V**

1

**NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 48 V**

2

**NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 60 V**

2

**RATED BREAKING  
CAPACITY AT 220/230 V  
(COS PHI TO IEC 60947-3)**

190 A

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

150 A

**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,**

19.6 A

<b>220 V, 230 V, 240 V</b>	
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	15.2 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>	12.1 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>	8.8 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS</b>	25 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>	12 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>	25 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>	25 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>	25 A
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	25 A
<b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	13 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>	11 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>	11 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	7.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>	7.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	7.5 kW

<b>TIGHTENING TORQUE</b>	14.1 lb-in, Screw terminals 1.6 Nm, Screw terminals
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current Iu is specified for max. cross-section.
<b>HOUSING COLOR</b>	Black
<b>HOUSING MATERIAL</b>	Plastic

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

:



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