

Specifications

Photo is representative

Eaton 207345

Eaton Moeller® series P3 Main switch, P3, 63 A, surface mounting, 3 pole, 1 N/O, 1 N/C, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position

General specifications

PRODUCT NAME	Eaton Moeller® series P3 Main switch
CATALOG NUMBER	207345
MODEL CODE	P3-63/I4/SVB-SW/HI11
EAN	4015082073459
PRODUCT LENGTH/DEPTH	139 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	160 mm
PRODUCT WEIGHT	1.105 kg
CERTIFICATIONS	IEC/EN 60204 IEC/EN 60947-3 CSA IEC/EN 60947 VDE 0660 UL
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second
GLOBAL CATALOG	207345

Product specifications

PRODUCT CATEGORY	Main switch
FEATURES	Version as maintenance-/service switch Version as main switch
ACTUATOR COLOR	Black
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.
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	Does not apply, since the

PROTECTION OF ASSEMBLIES	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.
FITTED WITH:	Black rotary handle and locking ring
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
RATED PERMANENT CURRENT AT AC-21, 400 V	63 A
RATED PERMANENT CURRENT AT AC-23, 400 V	63 A
RATED UNINTERRUPTED CURRENT (IU)	63 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
SWITCHING ANGLE	90 °
SWITCHING POWER AT 400 V	30 kW
VOLTAGE PER CONTACT PAIR IN SERIES	60 V
ACCESSORIES	Auxiliary contact or neutral conductor fitted by

user.

RATED OPERATIONAL

POWER AT AC-3, 500 V, 50 HZ 30 kW

DEVICE CONSTRUCTION Complete device in housing

RATED SHORT-TIME WITHSTAND CURRENT (ICW) 1.26 kA

ELECTRICAL
CONNECTION TYPE OF MAIN CIRCUIT Screw connection

MOUNTING POSITION As required

ACTUATOR TYPE Door coupling rotary drive

AMBIENT OPERATING TEMPERATURE - MAX 40 °C

AMBIENT OPERATING TEMPERATURE - MIN -25 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX 40 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN -25 °C

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

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID 4.5 W

HEAT DISSIPATION CAPACITY PDISS 0 W

HEAT DISSIPATION PER 4.5 W

**POLE, CURRENT-
DEPENDENT PVID**

NUMBER OF AUXILIARY

**CONTACTS (CHANGE-
OVER CONTACTS)** 0

NUMBER OF AUXILIARY

**CONTACTS (NORMALLY
CLOSED CONTACTS)** 1

RATED CONDITIONAL

**SHORT-CIRCUIT CURRENT
(IQ)** 4 kA (Load side)
100 kA (Supply side)

**OVERVOLTAGE
CATEGORY**

III

**CONTROL CIRCUIT
RELIABILITY**

1 failure per 100,000
switching operations
statistically determined, at
24 V DC, 10 mA)

**DEGREE OF PROTECTION
(FRONT SIDE)**

IP65

NUMBER OF POLES

3

MOUNTING METHOD

Surface mounting

DEGREE OF PROTECTION

NEMA 12

SUITABLE FOR

Ground mounting

LOCKING FACILITY

Lockable in the 0 (Off)
position

FUNCTIONS

STOP function
Interlockable

NUMBER OF SWITCHES

1

SAFE ISOLATION

440 V AC, Between the
contacts, According to EN
61140

SCREW SIZE

M5, Terminal screw

SHOCK RESISTANCE

15 g, Mechanical,
According to IEC/EN
60068-2-27, Half-
sinusoidal shock 20 ms

LIFESPAN, MECHANICAL

100,000 Operations

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)

2 x I_e (with intermittent
operation class 12, 25 %
duty factor)

**SWITCHING CAPACITY
(AUXILIARY CONTACTS,
GENERAL USE)**

10A, IU, (UL/CSA)

**SWITCHING CAPACITY
(AUXILIARY CONTACTS,**

P600 (UL/CSA)
A600 (UL/CSA)

PILOT DUTY)

14 - 2 AWG, solid or
flexible with ferrule
1 x (2.5 - 35) mm², solid or
stranded

TERMINAL CAPACITY

1 x (1.5 - 25) mm², flexible
with ferrules to DIN 46228
2 x (1.5 - 6) mm², flexible
with ferrules to DIN 46228
2 x (2.5 - 10) mm², solid or
stranded

**SWITCHING CAPACITY
(MAIN CONTACTS,
GENERAL USE)**

60 A, Rated uninterrupted
current max. (UL/CSA)

**SAFETY PARAMETER (EN
ISO 13849-1)**

B10d values as per EN ISO
13849-1, table C.1

**NUMBER OF AUXILIARY
CONTACTS (NORMALLY
OPEN CONTACTS)**

1

NUMBER OF CONTACTS**IN SERIES AT DC-23A, 120**

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 640 A
(COS PHI TO IEC 60947-3)

RATED BREAKING

CAPACITY AT 400/415 V 600 A
(COS PHI TO IEC 60947-3)

RATED BREAKING

**CAPACITY AT 500 V (COS
PHI TO IEC 60947-3)** 590 A

RATED BREAKING

CAPACITY AT 660/690 V 340 A
(COS PHI TO IEC 60947-3)

RATED MAKING

CAPACITY UP TO 690 V 800 A
**(COS PHI TO IEC/EN
60947-3)**

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 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
RATED OPERATIONAL CURRENT (IE) 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 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 (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	63 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	25 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 (IE) AT DC-23A, 60 V	50 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	63 A
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

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, 690 V, 50 Hz 30 kW

TIGHTENING TORQUE

3 Nm, Screw terminals
26.5 lb-in, Screw terminals

UNINTERRUPTED CURRENT

Rated uninterrupted current I_u is specified for max. cross-section.

10 HP at 240 V AC, single-phase

15 HP at 200 V AC, three-phase

15 HP at 240 V AC, three-phase

RATED SWITCHING CAPACITY

3 HP at 120 V AC, single-phase

40 HP at 480 V AC, three-phase

50 HP at 600 V AC, three-phase

7.5 HP at 200 V AC, single-phase

HOUSING COLOR

Black

HOUSING MATERIAL

Plastic

Resources**BROCHURES**

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

CATALOGS

[P1-40 Switch-disconnectors](#)

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

DECLARATIONS OF CONFORMITY

[eaton-main-switch-declaration-of-conformity-uk251293en.pdf](#)

[eaton-main-switch-declaration-of-conformity-eu250810en.pdf](#)

DRAWINGS

[eaton-rotary-switches-p3-main-switch-dimensions-012.eps](#)

eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps
eaton-general-switch-t0-main-switch-symbol.eps
eaton-rotary-switches-t0-main-switch-symbol.eps
eaton-rotary-switches-surface-mounting-t0-main-switch-3d-drawing.eps
eaton-general-totally-insulated-t0-main-switch-symbol.eps
ECAD MODEL ETN.P3-63_I4_SVB-SW_HI11
INSTALLATION VIDEOS Eaton's P Switch-disconnectors used in a factory
MCAD MODEL DA-CD-bauform11 DA-CS-bauform11
PEP ECO-PASSPORT EATO-00164-V01.01-EN.pdf
PRODUCT NOTIFICATIONS MZ008005ZU Orderform Customized Switch.pdf MZ008006ZU Orderform Customized Switch.pdf
SPECIFICATIONS AND DATASHEETS Eaton Specification Sheet - 207345
WIRING DIAGRAMS eaton-rotary-switches-contact-p1-main-switch-wiring-diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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