

# Eaton 050738

Catalog Number: 050738

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



## General specifications

### Product Name

Eaton Moeller® series P1 Main switch

### Catalog Number

050738

### Product Length/Depth

131 mm

### Product Height

65 mm

### Product Width

65 mm

### Product Weight

0.217 kg

### Certifications

UL Category Control No.: NLRV

CSA-C22.2 No. 60947-4-1-14

CSA

UL 60947-4-1

CE

IEC/EN 60947

VDE 0660

IEC/EN 60947-3

CSA-C22.2 No. 94

CSA Class No.: 3211-05

UL

IEC/EN 60204

CSA File No.: 012528

UL File No.: E36332

CSA

UL

### Catalog Notes

Rated Short-time Withstand Current  
(I<sub>cw</sub>) for a time of 1 second

### Model Code

P1-25/V/SVB-SW

## Specyfikacje produktu

### Rated operational current for specified heat dissipation (I<sub>n</sub>)

25 A

### 10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### Rated operational current (I<sub>e</sub>) at DC-23A, 24 V

25 A

### Rated operational power at AC-3, 380/400 V, 50 Hz

7.5 kW

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### Mounting method

Rear mounting

### Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)

190 A

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### Number of switches

1

### Fitted with:

Black rotary handle and locking ring

### Degree of protection (front side)

IP65

### Short-circuit current rating (basic rating)

5 kA, SCCR (UL/CSA)

110A, max. Fuse, SCCR (UL/CSA)

### Short-circuit current rating (high fault)

10 kA, SCCR (UL/CSA)

50 A, Class J, max. Fuse, SCCR (UL/CSA)

### Rated operational current (I<sub>e</sub>) at DC-23A, 120 V

12 A

### Rated conditional short-circuit current (I<sub>q</sub>)

80 kA

### Actuator type

Door coupling rotary drive

### Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)

## Do pobrania

### Deklaracje zgodności

[DA-DC-00004898.pdf](#)

[DA-DC-00004926.pdf](#)

### eCAD model

[DA-CE-ETN.P1-25\\_V\\_SVB-SW](#)

### Instrukcje montażu

[IL03802004Z](#)

### mCAD model

[DA-CS-p1\\_2020](#)

[DA-CD-p1\\_2020](#)

### Schematy połączeń

[eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps](#)

240 A

Ambient operating temperature - max

50 °C

Assigned motor power at 115/120 V, 60 Hz, 1-phase

1 HP

#### Features

Version as maintenance-/service switch

Version as emergency stop installation

Version as main switch

Electrical connection type of main circuit

Screw connection

Rated breaking capacity at 500 V (cos phi to IEC 60947-3)

170 A

Number of poles

3

Ambient operating temperature - min

-25 °C

#### 10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

Rated uninterrupted current (Iu)

25 A

#### 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

Operating frequency

1200 Operations/h

Product Category

Main switch

Number of contacts in series at DC-23A, 48 V

2

Rated operational current (Ie) at DC-23A, 48 V

25 A

Terminal capacity

1 x (1.5 - 6) mm<sup>2</sup>, solid or stranded

1 x (1 - 4) mm<sup>2</sup>, flexible with ferrules to DIN 46228

14 - 8 AWG, solid or flexible with ferrule

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

Number of contacts in series at DC-23A, 24 V

1

Heat dissipation capacity P<sub>diss</sub>

0 W

Assigned motor power at 460/480 V, 60 Hz, 3-phase

10 HP

Assigned motor power at 200/208 V, 60 Hz, 1-phase

2 HP

Rated operational current (I<sub>e</sub>) at AC-23A, 400 V, 415 V

25 A

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Overvoltage category

III

Degree of protection

NEMA 12

Actuator color

Black

Rated operational current (I<sub>e</sub>) at AC-23A, 230 V

25 A

Pollution degree

3

Rated operational power at AC-23A, 500 V, 50 Hz

11 kW

Rated impulse withstand voltage (U<sub>imp</sub>)

6000 V AC

Switching power at 400 V

13 kW

Voltage per contact pair in series

60 V

Functions

Interlockable

STOP function

Tightening torque

1.6 Nm, Screw terminals

14.1 lb-in, Screw terminals

Rated operational power at AC-3, 690 V, 50 Hz

7.5 kW

Rated operational current (I<sub>e</sub>) at AC-3, 660 V, 690 V

8.8 A

#### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

#### 10.2.4 Resistance to ultra-violet (UV) radiation

UV resistance only in connection with protective shield.

#### 10.2.7 Inscriptions

Meets the product standard's requirements.

Rated operational current (I<sub>e</sub>) at AC-3, 380 V, 400 V, 415 V

15.2 A

Number of auxiliary contacts (normally open contacts)

0

#### Shock resistance

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

Assigned motor power at 230/240 V, 60 Hz, 3-phase

5 HP

Ambient operating temperature (enclosed) - min

-25 °C

Rated operational power at AC-23A, 400 V, 50 Hz

13 kW

Rated operational current (I<sub>e</sub>) at AC-23A, 500 V

17.4 A

Rated operational current (I<sub>e</sub>) at DC-23A, 60 V

25 A

Rated operational power at AC-23A, 220/230 V, 50 Hz

5.5 kW

#### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

#### 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

#### Locking facility

Lockable in the 0 (Off) position

Ambient operating temperature (enclosed) - max

40 °C

Rated operational current ( $I_e$ ) at AC-21, 440 V

25 A

10.8 Connections for external conductors

Is the panel builder's responsibility.

Screw size

M4, Terminal screw

Assigned motor power at 575/600 V, 60 Hz, 3-phase

15 HP

Load rating

$2 \times I_e$  (with intermittent operation class 12, 25 % duty factor)

$1.3 \times I_e$  (with intermittent operation class 12, 60 % duty factor)

$1.6 \times I_e$  (with intermittent operation class 12, 40 % duty factor)

Rated operational current ( $I_e$ ) at AC-23A, 690 V

12.6 A

Rated permanent current at AC-21, 400 V

25 A

Rated operational power at AC-3, 415 V, 50 Hz

7.5 kW

Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

Device construction

Built-in device fixed built-in technique

Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)

150 A

Static heat dissipation, non-current-dependent  $P_{vs}$

0 W

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Safe isolation

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

#### Mounting position

As required

#### Safety parameter (EN ISO 13849-1)

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

#### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### Rated operational power at AC-23A, 690 V, 50 Hz

11 kW

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Heat dissipation per pole, current-dependent P<sub>vid</sub>

1.1 W

#### Switching capacity (auxiliary contacts, general use)

10A, IU, (UL/CSA)

#### Rated operating voltage (U<sub>e</sub>) - min

690 V

#### Uninterrupted current

Rated uninterrupted current I<sub>u</sub> is specified for max. cross-section.

#### Equipment heat dissipation, current-dependent P<sub>vid</sub>

0 W

#### Assigned motor power at 200/208 V, 60 Hz, 3-phase

3 HP

#### Suitable for

Branch circuits, suitable as motor disconnect, (UL/CSA)

#### Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)

150 A

#### Accessories

Auxiliary contact or neutral conductor fitted by user.

#### Number of auxiliary contacts (normally closed contacts)

0

#### Rated operational current (I<sub>e</sub>) at DC-1, load-break switches I/r = 1 ms

25 A

#### 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.

#### Lifespan, mechanical

300,000 Operations

#### Number of contacts in series at DC-23A, 60 V

2

#### Control circuit reliability

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

#### Rated short-time withstand current (Icw)

640 A, Contacts, 1 second

0.64 kA

#### Number of auxiliary contacts (change-over contacts)

0

#### Rated operational voltage (Ue) at AC - max

690 V

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

#### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

#### Switching capacity (main contacts, general use)

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

#### Number of contacts in series at DC-23A, 120 V

3

#### Rated operational current (Ie) at AC-3, 500 V

12.1 A

#### Assigned motor power at 230/240 V, 60 Hz, 1-phase

3 HP

#### Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V

19.6 A

#### Rated permanent current at AC-23, 400 V

25 A

#### Rated operating voltage (Ue) - max

690 V

#### Short-circuit protection rating



25 A gG/gL, Fuse, Contacts

Switching capacity (auxiliary contacts, pilot duty)

A600 (UL/CSA)

P600 (UL/CSA)



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