

# Specifications



Photo is representative



## Eaton 029383

Eaton Moeller® series P3 Main switch, P3, 100 A, flush mounting, 3 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

### General specifications

|                             |                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series P3 Main switch                                                                                                                                                                                                                      |
| <b>CATALOG NUMBER</b>       | 029383                                                                                                                                                                                                                                                    |
| <b>MODEL CODE</b>           | P3-100/EA/SVB/HI11                                                                                                                                                                                                                                        |
| <b>EAN</b>                  | 4015080293835                                                                                                                                                                                                                                             |
| <b>PRODUCT LENGTH/DEPTH</b> | 130 mm                                                                                                                                                                                                                                                    |
| <b>PRODUCT HEIGHT</b>       | 90 mm                                                                                                                                                                                                                                                     |
| <b>PRODUCT WIDTH</b>        | 90 mm                                                                                                                                                                                                                                                     |
| <b>PRODUCT WEIGHT</b>       | 0.466 kg                                                                                                                                                                                                                                                  |
| <b>CERTIFICATIONS</b>       | CSA-C22.2 No. 60947-4-1-14<br>CSA Class No.: 3211-05<br>IEC/EN 60947-3<br>CSA-C22.2 No. 94<br>VDE 0660<br>CE<br>CSA<br>IEC/EN 60204<br>IEC/EN 60947<br>UL<br>UL 60947-4-1<br>UL File No.: E36332<br>CSA File No.: 012528<br>UL Category Control No.: NLRV |
| <b>CATALOG NOTES</b>        | Rated Short-time Withstand Current (Icw) for a time of 1 second                                                                                                                                                                                           |



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## Actuator

|                       |                            |
|-----------------------|----------------------------|
| <b>ACTUATOR COLOR</b> | Red                        |
| <b>ACTUATOR TYPE</b>  | Door coupling rotary drive |

## Contacts

|                                                                |                                                                                         |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>CONTROL CIRCUIT RELIABILITY</b>                             | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| <b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0                                                                                       |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 1                                                                                       |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 1                                                                                       |

## Climatic environmental conditions

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>            | 50 °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>CLIMATIC PROOFING</b>                              | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 7.5 W                                                              |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 100 A                                                              |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## Electrical rating

**RATED BREAKING  
CAPACITY AT 220/230 V  
(COS PHI TO IEC 60947-3)** 760 A

**RATED BREAKING  
CAPACITY AT 400/415 V  
(COS PHI TO IEC 60947-3)** 740 A

**RATED BREAKING  
CAPACITY AT 500 V (COS  
PHI TO IEC 60947-3)** 880 A

**RATED BREAKING  
CAPACITY AT 660/690 V  
(COS PHI TO IEC 60947-3)** 520 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-21,  
440 V** 100 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
230 V** 100 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
400 V, 415 V** 100 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
500 V** 96 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
690 V** 68 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
220 V, 230 V, 240 V** 71 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
380 V, 400 V, 415 V** 71 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
500 V** 65 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
660 V, 690 V** 23.8 A

**RATED OPERATIONAL  
CURRENT (IE) AT DC-1,  
LOAD-BREAK SWITCHES  
L/R = 1 MS** 100 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,** 50 A

## Features & functions

### FEATURES

Version as emergency stop  
installation  
Version as main switch  
Version as maintenance-  
/service switch

### FITTED WITH:

Red rotary handle and  
yellow locking ring

### FUNCTIONS

Interlockable  
Emergency switching off  
function

### LOCKING FACILITY

Lockable in the 0 (Off)  
position

### NUMBER OF POLES

3

|                                                            |                                                                                 |
|------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>48 V</b>                                                |                                                                                 |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>      | 50 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, 500 V, 50 HZ</b>       | 45 kW                                                                           |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>       | 37 kW                                                                           |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>          | 690 V                                                                           |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                    | 100 A                                                                           |
| <b>UNINTERRUPTED CURRENT</b>                               | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |

## General information

|                                               |                                                                                  |
|-----------------------------------------------|----------------------------------------------------------------------------------|
| <b>ACCESSORIES</b>                            | Auxiliary contact or neutral conductor fitted by user.                           |
| <b>DEGREE OF PROTECTION</b>                   | NEMA 1                                                                           |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>      | IP65                                                                             |
| <b>LIFESPAN, MECHANICAL</b>                   | 100,000 Operations                                                               |
| <b>MOUNTING METHOD</b>                        | Flush mounting                                                                   |
| <b>MOUNTING POSITION</b>                      | As required                                                                      |
| <b>OPERATING FREQUENCY</b>                    | 1200 Operations/h                                                                |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                              |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                |
| <b>PRODUCT CATEGORY</b>                       | Main switch                                                                      |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                        |
| <b>SAFE ISOLATION</b>                         | 440 V AC, Between the contacts, According to EN 61140                            |
| <b>SAFETY PARAMETER (EN ISO 13849-1)</b>      | B10d values as per EN ISO 13849-1, table C.1                                     |
| <b>SHOCK RESISTANCE</b>                       | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms    |
| <b>SUITABLE FOR</b>                           | Branch circuits, suitable as motor disconnect, (UL/CSA)<br>Front mounting 4-hole |

## Short-circuit rating

|                                                     |                                                        |
|-----------------------------------------------------|--------------------------------------------------------|
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b> | 4 kA (Load side)<br>80 kA (Supply side)                |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>     | 2 kA                                                   |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>  | 10 kA, SCCR (UL/CSA)<br>150A, max. Fuse, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT PROTECTION RATING</b>              | 100 A gG/gL, Fuse, Contacts                            |

## Motor rating

|                                                          |       |
|----------------------------------------------------------|-------|
| <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 |

## Switching capacity

|                                                      |                                                                                                                                                                                                                                               |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LOAD RATING</b>                                   | 2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)<br>1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)<br>1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor) |
| <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<br/>IN SERIES AT DC-23A, 60 V</b>                          | 2                                                                                                        |
| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN<br/>60947-3)</b> | 950 A                                                                                                    |
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>GENERAL USE)</b>              | 10A, IU, (UL/CSA)                                                                                        |
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>PILOT DUTY)</b>               | P600 (UL/CSA)<br>A600 (UL/CSA)                                                                           |
| <b>SWITCHING CAPACITY<br/>(MAIN CONTACTS,<br/>GENERAL USE)</b>                   | 100 A, If used with neutral<br>conductor IU = max. 90 A,<br>Rated uninterrupted<br>current max. (UL/CSA) |
| <b>VOLTAGE PER CONTACT<br/>PAIR IN SERIES</b>                                    | 60 V                                                                                                     |

## Terminal capacities

|                          |                                                                                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SCREW SIZE</b>        | M5, Terminal screw                                                                                                                                                                                                                                                                                                   |
| <b>TERMINAL CAPACITY</b> | 2 x (1.5 - 6) mm <sup>2</sup> , flexible<br>with ferrules to DIN 46228<br>1 x (1.5 - 25) mm <sup>2</sup> , flexible<br>with ferrules to DIN 46228<br>14 - 2 AWG, solid or<br>flexible with ferrule<br>1 x (2.5 - 35) mm <sup>2</sup> , solid or<br>stranded<br>2 x (2.5 - 10) mm <sup>2</sup> , solid or<br>stranded |
| <b>TIGHTENING TORQUE</b> | 26.5 lb-in, Screw terminals<br>3 Nm, Screw terminals                                                                                                                                                                                                                                                                 |

## Resources

|                                  |                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                        | <a href="#">Brochure - T Rotary Cam switch and P Switch-disconnector</a>                                                                                                                                                                        |
| CATALOGUES                       | <a href="#">P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN</a>                                                                                                                                                           |
| DECLARATIONS<br>OF<br>CONFORMITY | <a href="#">eaton-main-switch-declaration-of-conformity-eu250812en.pdf</a><br><a href="#">eaton-main-switch-declaration-of-conformity-uk251295en.pdf</a>                                                                                        |
| DRAWINGS                         | <a href="#">eaton-rotary-switches-mounting-p3-main-switch-dimensions-005.eps</a><br><a href="#">eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps</a><br><a href="#">eaton-rotary-switches-mounting-p3-main-switch-dimensions.eps</a> |

|                           |                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <a href="#">eaton-general-mounting-p1-main-switch-symbol.eps</a><br><a href="#">eaton-rotary-switches-mounting-p1-main-switch-3d-drawing.eps</a><br><a href="#">eaton-rotary-switches-t0-main-switch-symbol.eps</a> |
| ECAD MODEL                | <a href="#">DA-CE-ETN.P3-100_EA_SVB_HI11</a>                                                                                                                                                                        |
| INSTALLATION INSTRUCTIONS | <a href="#">eaton-switch-disconnector-p3-flush-mounting-il03802002z.pdf</a>                                                                                                                                         |
| INSTALLATION VIDEOS       | <a href="#">Eaton's P Switch-disconnectors used in a factory</a>                                                                                                                                                    |
| MCAD MODEL                | <a href="#">eaton-erd-mcad-3d-models-p3-ea-svb-hi11.stp</a><br><a href="#">eaton-erd-mcad-drawings-p3-ea-svb-hi11.dwg</a><br><a href="#">eaton-enclosed-rotary-disconnects-mcad-drawings-p3-zz06.dwg</a>            |
| PRODUCT NOTIFICATIONS     | <a href="#">MZ008005ZU_Orderform_Customized_Switch.pdf</a><br><a href="#">MZ008006ZU_Orderform_Customized_Switch.pdf</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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