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## Eaton EP-400955

Eaton Moeller® series P3 Main switch, 80 A, Surface mounting, 3 pole, Form SE, Black, Short thumb-grip

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| <b>PRODUCT NAME</b>             | Eaton Moeller® series P3<br>Main switch                    |
| <b>CATALOG NUMBER</b>           | EP-400955  |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 250 mm   |
| <b>PRODUCT HEIGHT</b>           | 147 mm   |
| <b>PRODUCT WIDTH</b>            | 200 mm   |
| <b>PRODUCT WEIGHT</b>           | 2.575 kg   |
| <b>CERTIFICATIONS</b>           | IEC/EN 60947-3<br>IEC/EN 60947<br>IEC/EN 60204<br>VDE 0660 |

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| <b>PRODUCT CATEGORY</b>   | On-Off switch  |
| <b>FEATURES</b>   | Version as maintenance-/service 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 PROTECTION OF</b>   | Does not apply, since the entire switchgear needs to   |

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| DECLARATIONS OF CONFORMITY | <a href="#">eaton-main-switch-declaration-of-conformity-uk251292en.pdf</a> |
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| <b>ASSEMBLIES</b>   | 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<br>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>                  | 80 A   |
| <b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>                  | 80 A   |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                         | 80 A   |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>       | 0 W  |
| <b>SWITCHING ANGLE</b>  | 90 °   |
| <b>SWITCHING POWER AT 400 V</b>                                 | 55 kW  |
| <b>VOLTAGE PER CONTACT PAIR IN SERIES</b>                       | 60 V   |
| <b>ACCESSORIES</b>  | Auxiliary contact or neutral conductor fitted by user.                         |

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| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 500 V, 50<br/>HZ</b>       | 45 kW                         |
| <b>DEVICE CONSTRUCTION</b>   | Complete device in<br>housing |
| <b>RATED SHORT-TIME<br/>WITHSTAND CURRENT<br/>(ICW)</b>            | 2 kA                          |
| <b>ELECTRICAL<br/>CONNECTION TYPE OF<br/>MAIN CIRCUIT</b>          | Screw connection              |
| <b>MOUNTING POSITION</b>   | As required                   |
| <b>ACTUATOR TYPE</b>   | Short thumb-grip              |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MAX</b>                     | 50 °C                         |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MIN</b>                     | -25 °C                        |
| <b>AMBIENT OPERATING<br/>TEMPERATURE<br/>(ENCLOSED) - MAX</b>      | 40 °C                         |
| <b>AMBIENT OPERATING<br/>TEMPERATURE<br/>(ENCLOSED) - MIN</b>      | -25 °C                        |
| <b>ASSIGNED MOTOR<br/>POWER AT 115/120 V, 60<br/>HZ, 1-PHASE</b>   | 5 HP                          |
| <b>ASSIGNED MOTOR<br/>POWER AT 200/208 V, 60<br/>HZ, 1-PHASE</b>   | 10 HP                         |
| <b>ASSIGNED MOTOR<br/>POWER AT 200/208 V, 60<br/>HZ, 3-PHASE</b>   | 15 HP                         |
| <b>ASSIGNED MOTOR<br/>POWER AT 230/240 V, 60<br/>HZ, 1-PHASE</b>   | 15 HP                         |
| <b>ASSIGNED MOTOR<br/>POWER AT 230/240 V, 60<br/>HZ, 3-PHASE</b>   | 20 HP                         |
| <b>ASSIGNED MOTOR<br/>POWER AT 460/480 V, 60<br/>HZ, 3-PHASE</b>   | 50 HP                         |
| <b>ASSIGNED MOTOR<br/>POWER AT 575/600 V, 60<br/>HZ, 3-PHASE</b>   | 60 HP                         |
| <b>EQUIPMENT HEAT<br/>DISSIPATION, CURRENT-<br/>DEPENDENT PVID</b> | 0 W                           |
| <b>HEAT DISSIPATION<br/>CAPACITY PDISS</b>                         | 0 W                           |
| <b>HEAT DISSIPATION PER<br/>POLE, CURRENT-<br/>DEPENDENT PVID</b>  | 7.5 W                         |

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| <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>            | 4 kA (Load side)<br>80 kA (Supply side)   |
| <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>   | Three-pole  |
| <b>MOUNTING METHOD</b>   | Surface mounting  |
| <b>DEGREE OF PROTECTION</b>                                    | NEMA 12   |
| <b>SUITABLE FOR</b>  | Ground mounting   |
| <b>NUMBER OF SWITCHES</b>                                      | 1   |
| <b>SAFE ISOLATION</b>  | 440 V AC, Between the contacts, According to EN 61140   |
| <b>SHOCK RESISTANCE</b>  | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms   |
| <b>LIFESPAN, MECHANICAL</b>                                    | 100,000 Operations  |
| <b>LOAD RATING</b>   | 1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)<br>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)           |
| <b>TERMINAL CAPACITY</b>                                       | 2 x (2.5 - 10) mm <sup>2</sup> , solid or stranded<br>2 x (1.5 - 6) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>1 x (1.5 - 25) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>1 x (2.5 - 35) 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   |

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| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 120<br/>V</b>                     | 3                              |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 24 V</b>                          | 1                              |
| <b>NUMBER OF CONTACTS<br/>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 BREAKING<br/>CAPACITY AT 220/230 V<br/>(COS PHI TO IEC 60947-3)</b>     | 760 A                          |
| <b>RATED BREAKING<br/>CAPACITY AT 400/415 V<br/>(COS PHI TO IEC 60947-3)</b>     | 740 A                          |
| <b>RATED BREAKING<br/>CAPACITY AT 500 V (COS<br/>PHI TO IEC 60947-3)</b>         | 880 A                          |
| <b>RATED BREAKING<br/>CAPACITY AT 660/690 V<br/>(COS PHI TO IEC 60947-3)</b>     | 520 A                          |
| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN<br/>60947-3)</b> | 950 A                          |
| <b>RATED OPERATING<br/>VOLTAGE (UE) - MAX</b>                                    | 690 V                          |
| <b>RATED OPERATING<br/>VOLTAGE (UE) - MIN</b>                                    | 690 V                          |
| <b>RATED OPERATIONAL<br/>VOLTAGE (UE) AT AC -<br/>MAX</b>                        | 690 V                          |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING</b>                                       | 100 A gG/gL, Fuse,<br>Contacts |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-21,<br/>440 V</b>                    | 80 A                           |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>230 V</b>                   | 80 A                           |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>400 V, 415 V</b>            | 80 A                           |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>500 V</b>                   | 80 A                           |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>690 V</b>                   | 68 A                           |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>       | 71 A                           |

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| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>                | 71 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                              | 65 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>                       | 23.8 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>LOAD-BREAK SWITCHES<br/>L/R = 1 MS</b> | 80 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>120 V</b>                            | 25 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>24 V</b>                             | 50 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>48 V</b>                             | 50 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>                             | 50 A  |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b>              | 80 A  |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 400 V,<br/>50 HZ</b>                            | 30 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>                          | 30 kW   |
| <b>TIGHTENING TORQUE</b>  | 3 Nm, Screw terminals   |
| <b>UNINTERRUPTED<br/>CURRENT</b>  | Rated uninterrupted<br>current I <sub>u</sub> is specified for<br>max. cross-section. |
| <b>HOUSING COLOR</b>  | Black   |
| <b>HOUSING MATERIAL</b>   | Plastic   |

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| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
|                 |



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