

# Specifications



Photo is representative

## Eaton 280963

Eaton Moeller® series P5 Auxiliary contact, 2N/O+1N/C, for P5, 125A, flush mounting

### General specifications

|                                 |                                                                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series P5<br>Accessory Auxiliary<br>contact                                                                                                                                                                                |
| <b>CATALOG NUMBER</b>           | 280963                                                                                                                                                                                                                                    |
| <b>MODEL CODE</b>               | HI21-P5-125/160E                                                                                                                                                                                                                          |
| <b>EAN</b>                      | 4015082809638                                                                                                                                                                                                                             |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 50 mm                                                                                                                                                                                                                                     |
| <b>PRODUCT HEIGHT</b>           | 75 mm                                                                                                                                                                                                                                     |
| <b>PRODUCT WIDTH</b>            | 130 mm                                                                                                                                                                                                                                    |
| <b>PRODUCT WEIGHT</b>           | 0.045 kg                                                                                                                                                                                                                                  |
| <b>COMPLIANCES</b>              | CE Marked                                                                                                                                                                                                                                 |
| <b>CERTIFICATIONS</b>           | IEC 60947-5<br>UL 508<br>CSA Std. C22.2 No. 14-05<br>EN 60947-5<br>CSA File No.: 223805<br>CSA-C22.2 No. 14-05<br>CSA<br>UL File No.: E36332<br>CSA Class No.: 3211-03<br>IEC/EN 60947-5<br>CE<br>UL Category Control No.:<br>NLRV, NLRV7 |
| <b>CATALOG NOTES</b>            | Late-break switching-on<br>behavior, early-make<br>switching-off behavior                                                                                                                                                                 |

## Climatic environmental conditions

|                                                |       |
|------------------------------------------------|-------|
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MAX</b> | 50 °C |
|------------------------------------------------|-------|

|                                                |        |
|------------------------------------------------|--------|
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MIN</b> | -25 °C |
|------------------------------------------------|--------|

## Contacts

|                                        |                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>CONTROL CIRCUIT<br/>RELIABILITY</b> | 1 failure per 100,000<br>switching operations<br>statistically determined, at<br>24 V DC, 10 mA) |
|----------------------------------------|--------------------------------------------------------------------------------------------------|

|                                                          |   |
|----------------------------------------------------------|---|
| <b>NUMBER OF CONTACTS<br/>(CHANGE-OVER<br/>CONTACTS)</b> | 0 |
|----------------------------------------------------------|---|

|                                                              |   |
|--------------------------------------------------------------|---|
| <b>NUMBER OF CONTACTS<br/>(NORMALLY CLOSED<br/>CONTACTS)</b> | 1 |
|--------------------------------------------------------------|---|

|                                                            |   |
|------------------------------------------------------------|---|
| <b>NUMBER OF CONTACTS<br/>(NORMALLY OPEN<br/>CONTACTS)</b> | 2 |
|------------------------------------------------------------|---|

## 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>                                 | Meets the product standard's requirements.                                                                                       |
| <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</b>                                                                  | Does not apply, since the                                                                                                        |

## Electrical rating

|                                                                     |                       |
|---------------------------------------------------------------------|-----------------------|
| <b>RATED INSULATION VOLTAGE (UI)</b>                                | 500 V                 |
| <b>RATED OPERATIONAL CURRENT (IE)</b>                               | 0.1 A at DC-13, 250 V |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b> | 6 A                   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b> | 3 A                   |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 125 V</b>               | 0.23 A                |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                             | 10 A                  |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                        | 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>             | 0.11 W                                                             |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 6 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## Features & functions

|                                 |                  |
|---------------------------------|------------------|
| <b>ELECTRIC CONNECTION TYPE</b> | Screw connection |
|---------------------------------|------------------|

## Short-circuit rating

|                                        |                                           |
|----------------------------------------|-------------------------------------------|
| <b>SHORT-CIRCUIT PROTECTION RATING</b> | Max. 10 A gG/gL, Fuse, Auxiliary contacts |
|----------------------------------------|-------------------------------------------|

## General information

|                          |                         |
|--------------------------|-------------------------|
| <b>CONNECTION TYPE</b>   | Screw connection        |
| <b>MODEL</b>             | Top mounting            |
| <b>MOUNTING METHOD</b>   | Side mounting           |
| <b>MOUNTING POSITION</b> | Right side<br>Left side |
| <b>PRODUCT CATEGORY</b>  | Accessories             |
| <b>TYPE</b>              | Auxiliary contact       |
| <b>USED WITH</b>         | P5-125(160)/E(EA)       |

## Terminal capacities

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>STRIPPING LENGTH (MAIN CABLE)</b> | 8 mm                       |
| <b>TERMINAL CAPACITY</b>             | 0.5 - 2.5 mm², ferrules to |

|                                  |                           |
|----------------------------------|---------------------------|
| <b>(FLEXIBLE WITH FERRULE)</b>   | DIN 46228                 |
| <b>TERMINAL CAPACITY (SOLID)</b> | 0.5 - 2.5 mm <sup>2</sup> |
| <b>TIGHTENING TORQUE</b>         | 0.8 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 OF CONFORMITY | <a href="#">eaton-accessory-declaration-of-conformity-eu250719en.pdf</a><br><a href="#">eaton-accessory-declaration-of-conformity-uk251202en.pdf</a> |
| DRAWINGS                   | <a href="#">eaton-rotary-switches-contact-p5-auxiliary-contact-3d-drawing.eps</a>                                                                    |
| ECAD MODEL                 | <a href="#">ETN.HI21-P5-125 160E</a>                                                                                                                 |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL03802009Z2021_08.pdf</a>                                                                                                               |
| INSTALLATION VIDEOS        | <a href="#">Eaton's P Switch-disconnectors used in a factory</a>                                                                                     |
| MCAD MODEL                 | <a href="#">eaton-contact-blocks-mcad-drawings-hi21-p5-125-160-e.dwg</a><br><a href="#">hi21_p5_125_160_e.stp</a>                                    |

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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