## **DATASHEET - HI11-P1/P3E**



## Auxiliary contact, 1 N/O, 1 NC, For use with P1, P3, Flush mounting

Powering Business Worldwide\*

Part no. HI11-P1/P3E Catalog No. 061813

EL-Nummer (Norway) 1456548

#### **Delivery program**

| - control / programm        |                |   |   |
|-----------------------------|----------------|---|---|
| Product range               |                |   | Accessories   |
| Basic function              |                |   | Auxiliary contact   |
| Part group reference        |                |   | P1<br>P3  |
|                             |                |   | Late-break switching-on behavior, early-make switching-off behavior The N/O is always connected as a load-shedding contact. For left and/or right side mounting |
| Contacts                    |                |   |   |
| N/O = Normally open         |                |   | 1 N/O   |
| N/C = Normally closed       |                |   | 1 NC  |
| For use with                |                |   | P1/E,/EA,/EZ<br>P3/E,/EA  |
| For use with                |                |   | P1, P3, Flush mounting  |
| Rated uninterrupted current | l <sub>u</sub> | Α | 10  |

## **Technical data**

#### **Auxiliary contacts**

| Auxiliary contacts                            |                   |                 |  |
|---|-------------------|-----------------|--|
| Standards                                     |                   |                 | Control circuit isolator to IEC/EN 60947-5 |
| Rated insulation voltage                      | Ui                | V AC            |  |
| Rated insulation voltage                      | Ui                | V AC            | 500  |
| Rated uninterrupted current                   | I <sub>u</sub>    | Α               |  |
| Rated uninterrupted current                   | I <sub>u</sub>    | Α               | 10   |
| Rated operational current                     | l <sub>e</sub>    | Α               |  |
| AC-15   |                   |                 |  |
| 230 V   | I <sub>e</sub>    | Α               |  |
| AC-15 with 230 V                              | I <sub>e</sub>    | Α               | 6  |
| DC-13   | I <sub>e</sub>    |                 |  |
| 125 V   | I <sub>e</sub>    | Α               | 1.1  |
| 250 V   | I <sub>e</sub>    | Α               | 0.55                                       |
| Short-circuit rating                          |                   |                 |  |
| Maximum fuse                                  |                   | A gG/gL         | 10   |
| Terminal capacities                           |                   | $\mathrm{mm}^2$ |  |
| Solid   |                   | mm <sup>2</sup> | 1 x 0.75 - 2.5<br>2 x 0.75 - 1.5           |
| Flexible with ferrules to DIN 46228           |                   | mm <sup>2</sup> | 1 x 0.5 - 1.5<br>2 x 0.5 - 1.5             |
| Stripping length                              |                   | mm              | 7.5  |
| Tightening torque                             |                   | Nm              | 1  |
| Control circuit reliability at 24 V DC, 10 mA | Fault probability | H <sub>F</sub>  | < 10-5, < 1 failure in 100000 operations   |

## **Design verification as per IEC/EN 61439**

| 3  |                   |   |      |
|--|-------------------|---|------|
| Technical data for design verification                   |                   |   |      |
| Rated operational current for specified heat dissipation | In                | Α | 6    |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub>  | W | 0.11 |
| Equipment heat dissipation, current-dependent            | P <sub>vid</sub>  | W | 0    |
| Static heat dissipation, non-current-dependent           | $P_{vs}$          | W | 0    |
| Heat dissipation capacity                                | P <sub>diss</sub> | W | 0    |

| Operating ambient temperature min.   | °C | -25  |
|--|----|--|
| Operating ambient temperature max.   | °C | 50   |
| IEC/EN 61439 design verification   |    |  |
| 10.2 Strength of materials and parts   |    |  |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |    | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation   |    | Meets the product standard's requirements.   |
| 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 protection of ASSEMBLIES  |    | Does not apply, since the 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 Insulation properties   |    |  |
| 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.   |
| 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.                         |

#### **Technical data ETIM 7.0**

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

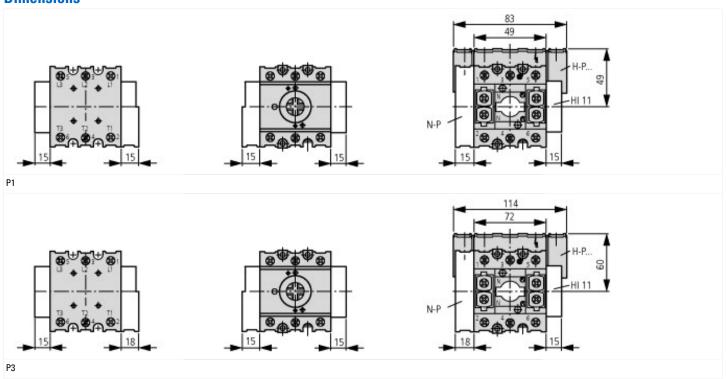
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

| Number of contacts as change-over contact     |   | 0                |
|---|---|------------------|
| Number of contacts as normally open contact   |   | 1                |
| Number of contacts as normally closed contact |   | 1                |
| Number of fault-signal switches               |   | 0                |
| Rated operation current le at AC-15, 230 V    | Α | 6                |
| Type of electric connection                   |   | Screw connection |
| Model   |   | Top mounting     |
| Mounting method                               |   | Side mounting    |
| Lamp holder                                   |   | Other            |

# Approvals

| Product Standards           | UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-5; CE marking |
|-----------------------------|---|
| UL File No.                 | E36332  |
| UL Category Control No.     | NLRV  |
| CSA File No.                | 12528   |
| CSA Class No.               | 3211-05   |
| North America Certification | UL listed, CSA certified                                |

# **Dimensions**



# **Additional product information (links)**

| ,            |  |
|--|--|
| Technical overview cam switch, switch-disconnector | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2                       |
| System overview cam switch T                       | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4                       |
| System overview switch-disconnector P              | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6                       |
| Key to part numbers Cam switch                     | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8                       |
| Key to part numbers Switch-disconnector            | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8                       |
| Switches for ATEX                                  | http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html |