# DATASHEET - HI21-P5-125/160Z



**Auxiliary contact, 2N/O+1N/C, for P5, 125A, rear mounting**

| | |
|---|---|
| **Part no.** | **HI21-P5-125/160Z** |
| **Catalog No.** | **280964** |
| **EL-Nummer (Norway)** | **1417192** |

Powering Business Worldwide™

## Delivery program

| | | | |
|---|---|---|---|
| Product range | | | Accessories |
| Basic function | | | Auxiliary contact |
| Part group reference | | | P5 |
| | | | Late-break switching-on behavior, early-make switching-off behavior<br>The N/O is always connected as a load-shedding contact.<br>For left or right side mounting |
| **Contacts** | | | |
| N/O = Normally open | | | 2 N/O |
| N/C = Normally closed | | | 1 NC |
| For use with | | | P5-125(160)/Z(V) |
| For use with | | | P5-125, P5-160, intermediate |
| Rated uninterrupted current | $I_u$ | A | 10 |

## Technical data

### Auxiliary contacts

| | | | |
|---|---|---|---|
| Standards | | | Control circuit isolator to IEC/EN 60947-5 |
| Rated insulation voltage | $U_i$ | V AC | |
| Rated insulation voltage | $U_i$ | V AC | 500 |
| Rated uninterrupted current | $I_u$ | A | |
| Rated uninterrupted current | $I_u$ | A | 10 |
| Rated operational current | $I_e$ | A | |
| AC-15 | | | |
| 230 V | $I_e$ | A | |
| AC-15 with 230 V | $I_e$ | A | 6 |
| 400 V/415 V | $I_e$ | A | |
| 380 V 415 V | $I_e$ | A | 3 |
| DC-13 | $I_e$ | | |
| 125 V | $I_e$ | A | 0.23 |
| 250 V | $I_e$ | A | 0.1 |
| Short-circuit rating | | | |
| Maximum fuse | | A gG/gL | 10 |
| Terminal capacities | | $mm^2$ | |
| Solid | | $mm^2$ | 0.5 - 2.5 |
| Flexible with ferrules to DIN 46228 | | $mm^2$ | 0.5 - 2.5 |
| Stripping length | | mm | 8 |
| Tightening torque | | Nm | 0.8 |
| Control circuit reliability at 24 V DC, 10 mA | Fault probability | $H_F$ | < 10-5, < 1 failure in 100000 operations |

## Design verification as per IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | $I_n$ | A | 6 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0.11 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 0 |
| Static heat dissipation, non-current-dependent | $P_{vs}$ | W | 0 |

| | | | |
|---|---|---|---|
| Heat dissipation capacity | $P_{diss}$ | 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 | | | 2 |
| Number of contacts as normally closed contact | | | 1 |
| Number of fault-signal switches | | | 0 |
| Rated operation current Ie at AC-15, 230 V | | A | 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, NLRV7 |
| CSA File No. | | | 223805 |
| CSA Class No. | | | 3211-03 |
| North America Certification | | | Request filed for UL, CSA certified |

## Additional product information (links)

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| Technical overview cam switch, switch-disconnector | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2 |

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|---|---|
| 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 |


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