

Standard auxiliary contact, 1N/O+1N/C, screw connection

Part no. **NHI11-PKZ0**  
 Catalog No. **072896**  
 Eaton Catalog No. **XTPAXSA11**  
 EL-Nummer **0004355131**  
 (Norway)

## Delivery program

|                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|
| Product range                                                                                                                                                                                                                                                                                                                                                                                 |  | Accessories                                        |
| Accessories                                                                                                                                                                                                                                                                                                                                                                                   |  | Standard auxiliary contact                         |
| <b>Contacts</b>                                                                                                                                                                                                                                                                                                                                                                               |  |                                                    |
| N/O = Normally open                                                                                                                                                                                                                                                                                                                                                                           |  | 1 N/O                                              |
| N/C = Normally closed                                                                                                                                                                                                                                                                                                                                                                         |  | 1 NC                                               |
| Contact diagram                                                                                                                                                                                                                                                                                                                                                                               |  |                                                    |
| Contact sequence                                                                                                                                                                                                                                                                                                                                                                              |  |                                                    |
| Connection technique                                                                                                                                                                                                                                                                                                                                                                          |  | Screw terminals                                    |
| For use with                                                                                                                                                                                                                                                                                                                                                                                  |  | PKZ0(4) standard auxiliary contacts                |
| For use with                                                                                                                                                                                                                                                                                                                                                                                  |  | PKZM01<br>PKZM0<br>PKZM4<br>PKZM0-T<br>PKM0<br>PKE |
| <p><b>Notes</b> Can be fitted to the right of:<br/>                 Motor protective circuit-breaker<br/>                 Transformer-protective circuit-breaker<br/>                 Motor protective circuit breaker for starter combinations<br/>                 Cannot be used for motor starter combinations type MSC-R...<br/>                 can be combined with AGM, NHI-E ...</p> |  |                                                    |

## Technical data

### Auxiliary contacts

|                                              |           |      |       |
|----------------------------------------------|-----------|------|-------|
| Rated impulse withstand voltage              | $U_{imp}$ | V AC | 6000  |
| Overvoltage category/pollution degree        |           |      | III/3 |
| Rated operational voltage                    | $U_e$     | V    |       |
|                                              | $U_e$     | V AC | 500   |
|                                              | $U_e$     | V DC | 250   |
| Safe isolation to EN 61140                   |           |      |       |
| Between auxiliary contacts and main contacts |           | V AC | 690   |
| Rated operational current                    | $I_e$     | A    |       |
| AC-15                                        |           |      |       |
| 220 - 240 V                                  | $I_e$     | A    | 3.5   |
| 380 - 415 V                                  | $I_e$     | A    | 2     |
| 440 V 500 V                                  | $I_e$     | A    | 1     |
| DC-13 L/R - 100 ms                           |           |      |       |

|                                      |              |               |                                                                                                                    |
|--------------------------------------|--------------|---------------|--------------------------------------------------------------------------------------------------------------------|
| 24 V                                 | $I_e$        | A             | 2                                                                                                                  |
| 60 V                                 | $I_e$        | A             | 1                                                                                                                  |
| 110 V                                | $I_e$        | A             | 0.5                                                                                                                |
| 220 V                                | $I_e$        | A             | 0.25                                                                                                               |
| Lifespan                             |              | S             |                                                                                                                    |
| Lifespan, mechanical                 | Operations   | $\times 10^6$ | > 0.1                                                                                                              |
| Lifespan, electrical                 | Operations   | $\times 10^6$ | 0.05                                                                                                               |
| Control circuit reliability          | Failure rate | $\lambda$     | $<10^{-8}$ , < one failure at 100 million operations<br>(at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA) |
| interlocked opposing contacts        |              |               | yes                                                                                                                |
| Short-circuit rating without welding |              |               |                                                                                                                    |
| Fuseless                             |              | Type          | FAZ-B4/1-HI                                                                                                        |
| Fuse                                 |              | A gG/gL       | 10                                                                                                                 |

### Terminal capacities

|                                           |  |               |            |
|-------------------------------------------|--|---------------|------------|
| Solid or flexible conductor, with ferrule |  | $\text{mm}^2$ | 0,75 - 2,5 |
| Solid or stranded                         |  | AWG           | 18 - 14    |

### Rating data for approved types

|             |  |   |      |
|-------------|--|---|------|
| Pilot Duty  |  |   |      |
| AC operated |  |   | A600 |
| DC operated |  |   | Q300 |
| General Use |  |   |      |
| AC          |  | V | 600  |
| AC          |  | A | 5    |
| DC          |  | V | 250  |
| DC          |  | A | 1    |

### Design verification as per IEC/EN 61439

|                                                                                                                        |            |    |                                                                    |
|------------------------------------------------------------------------------------------------------------------------|------------|----|--------------------------------------------------------------------|
| Technical data for design verification                                                                                 |            |    |                                                                    |
| Rated operational current for specified heat dissipation                                                               | $I_n$      | A  | 3.5                                                                |
| Heat dissipation per pole, current-dependent                                                                           | $P_{vid}$  | W  | 0.04                                                               |
| 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 | 55                                                                 |
| IEC/EN 61439 design verification                                                                                       |            |    |                                                                    |
| 10.2 Strength of materials and parts                                                                                   |            |    |                                                                    |
| 10.2.2 Corrosion resistance                                                                                            |            |    |                                                                    |
| 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.                         |

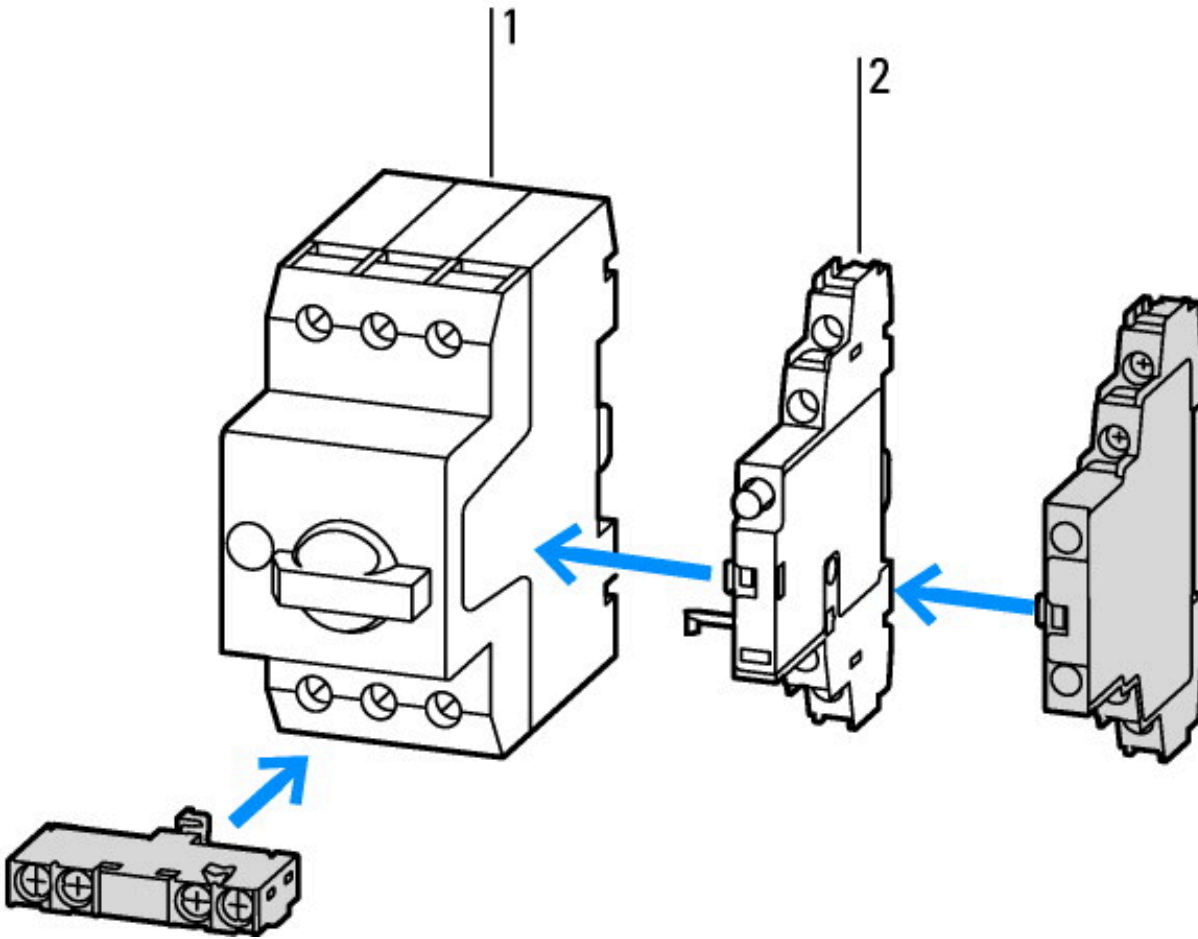
## Technical data ETIM 7.0

|                                                                                                                                                                                                                |  |   |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|------------------|
| 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 (ecI@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 I <sub>e</sub> at AC-15, 230 V                                                                                                                                                         |  | A | 3.5              |
| Type of electric connection                                                                                                                                                                                    |  |   | Screw connection |
| Model                                                                                                                                                                                                          |  |   | Top mounting     |
| Mounting method                                                                                                                                                                                                |  |   | Side mounting    |
| Lamp holder                                                                                                                                                                                                    |  |   | None             |

## Approvals

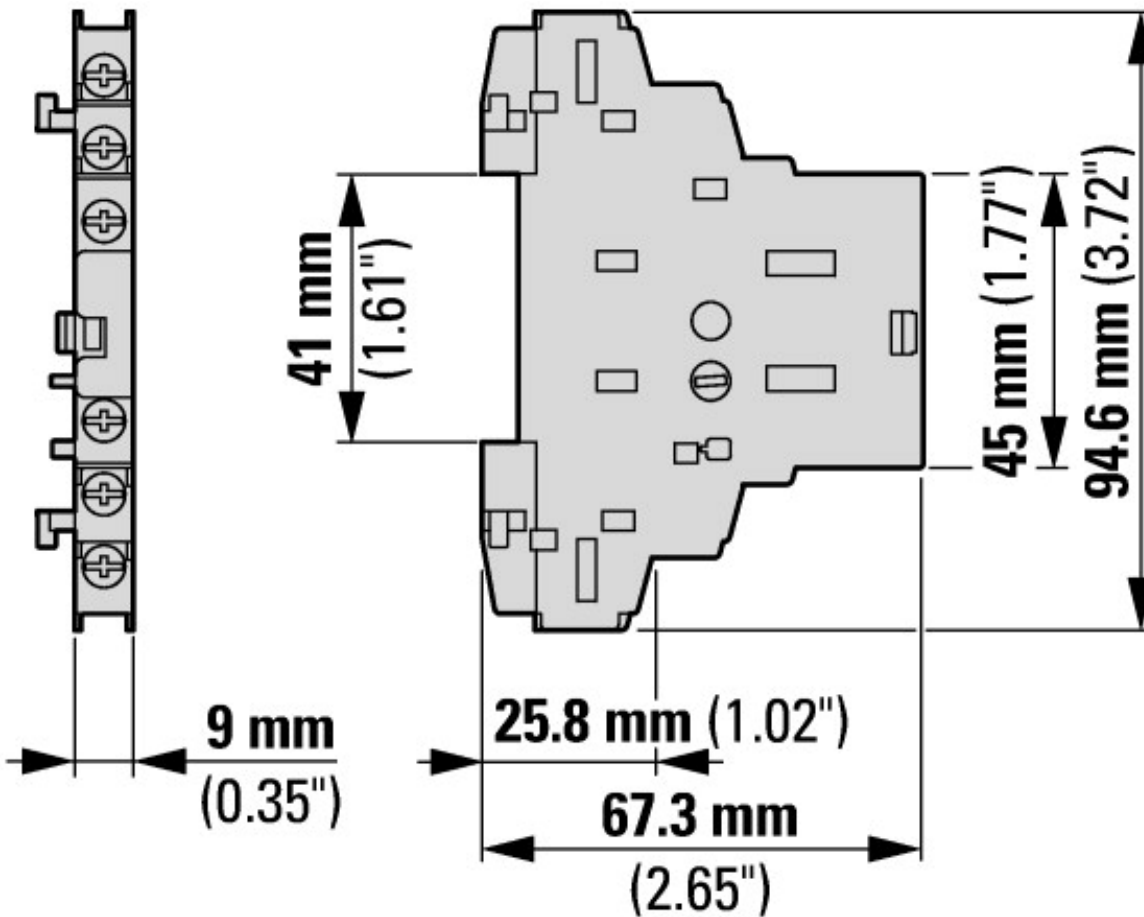
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|--------------------------------------|--|--|----------------------------------------------------|
| Product Standards                    |  |  | UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking |
| UL File No.                          |  |  | E36332                                             |
| UL Category Control No.              |  |  | NLRV                                               |
| CSA File No.                         |  |  | 165628                                             |
| CSA Class No.                        |  |  | 3211-05                                            |
| North America Certification          |  |  | UL listed, CSA certified                           |
| Specially designed for North America |  |  | No                                                 |

## Characteristics



- 1: Motor-protective circuit-breakers
- 2: Trip-indicating auxiliary contact

## Dimensions



## Additional product information (links)

|                                                                             |                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter</b> |                                                                                                                                                                                                                 |
| IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter        | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402034Z2018_06.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402034Z2018_06.pdf</a>                                           |
| <b>IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker</b>          |                                                                                                                                                                                                                 |
| IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker                 | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407011Z2018_04.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407011Z2018_04.pdf</a>                                           |
| Motor starters and "Special Purpose Ratings" for the North American market  | <a href="http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf">http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf</a> |
| Busbar Component Adapters for modern Industrial control panels              | <a href="http://www.moeller.net/binary/ver_techpapers/ver960en.pdf">http://www.moeller.net/binary/ver_techpapers/ver960en.pdf</a>                                                                               |