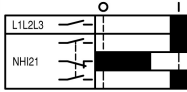
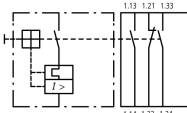


Standard auxiliary contact, 2N/O+1N/C, screw connection

**Part no.** NH121-PKZ0  
**Catalog No.** 072894  
**Alternate Catalog No.** XTPAXSA21  
**EL-Nummer (Norway)** 4355132

## Delivery program

|   |  |   |
|---|--|---|
| Product range   |  | Accessories   |
| Accessories   |  | Standard auxiliary contact  |
|   |  | Can be retrofitted on the right side of motor-protective circuit-breakers           |
| <b>Contacts</b>   |  |   |
| N/O = Normally open   |  | 2 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  |            |    |  |
|  |            |    | 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.                         |

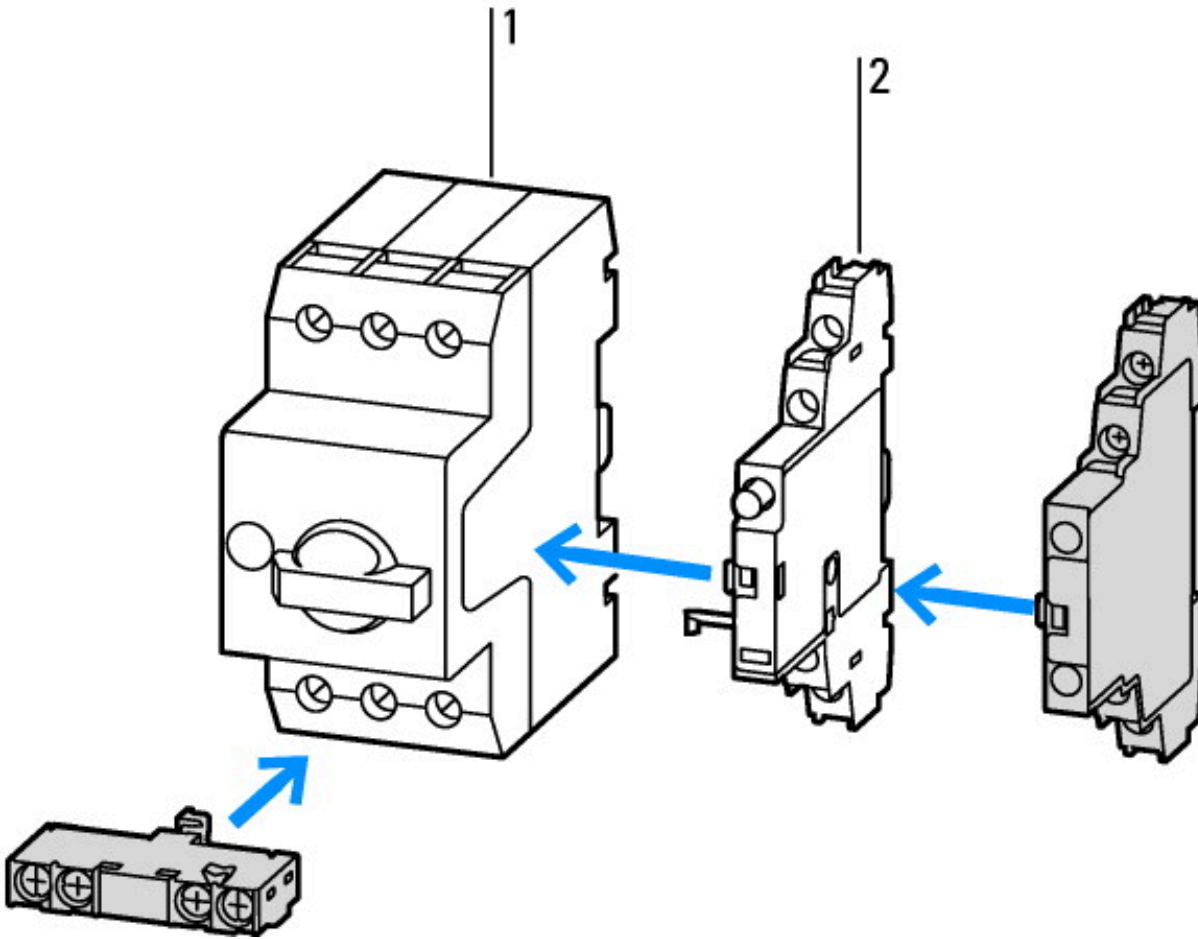
## Technical data ETIM 7.0

|  |  |   |                  |
|--|--|---|------------------|
| 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 (ec1@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 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

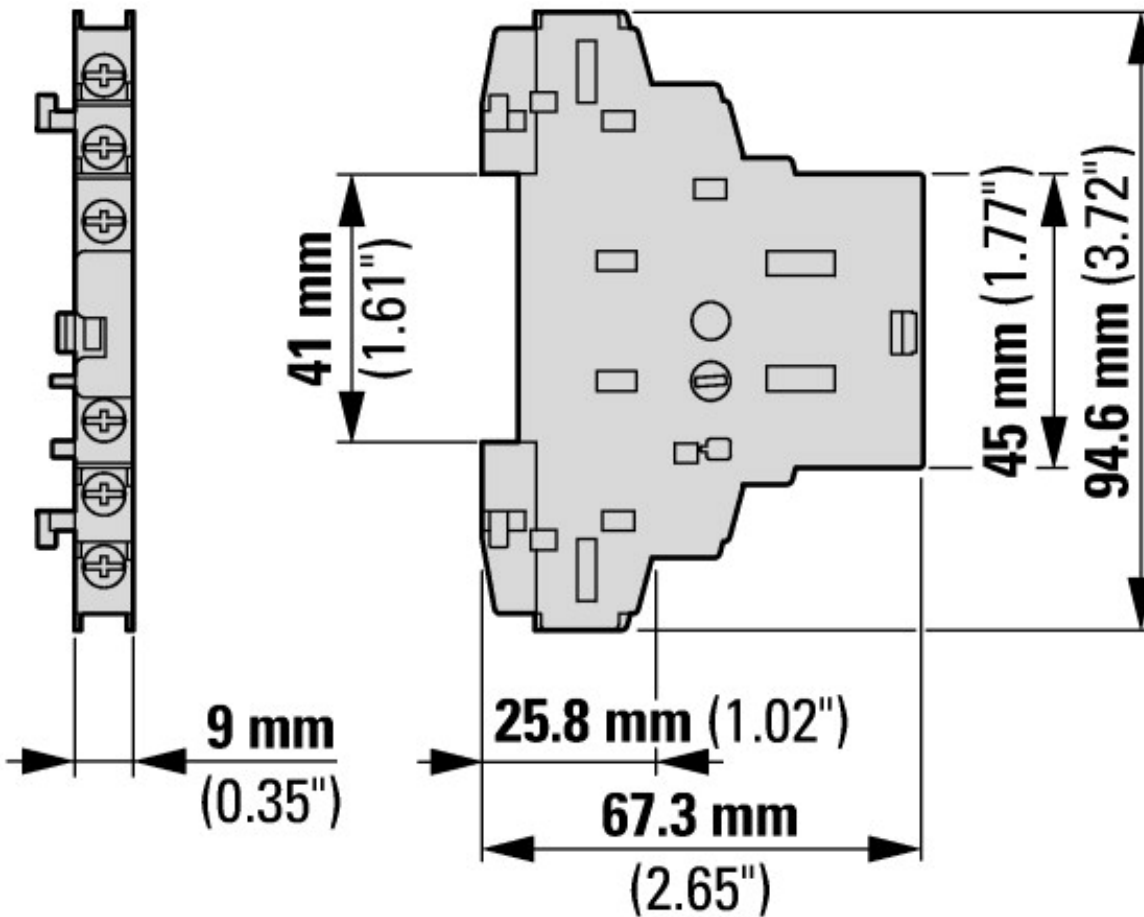
|                                      |  |  |  |
|--------------------------------------|--|--|--|
| Product Standards                    |  |  | UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking |
| UL File No.                          |  |  | E36332   |
| UL Category Control No.              |  |  | 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)

|  |   |
|--|---|
| 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>   |