



AUXILIARY SWITCH NHI-PKZ0



Powering Business Worldwide™

Part no.
Article no.

NHI-E-11-PKZ0
082882

For motor-protective circuit-breakers

Program

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------|
| Contacts | | | |
| N/O = Normally open | | | 1 N/O |
| N/C = Normally closed | | | 1 N/C |
| Contact diagram | | | |
| Contact sequence | | | |
| Connection technique | | | Screw terminals |
| For use with | | | PKZM01 PKZM0 PKZM4 PKZM0-T PKM0 PKE |
| Notes | | | |
| Can be retrofitted to motor-protective circuit-breakers, transformer-protective circuit-breakers, motor-protective circuit-breakers for starter combinations from serial number 01. | | | |
| 45 mm (PKZM0 and PKZM01) or 55 mm (PKZM4) widths of the motor-protective circuit-breakers remain unchanged. | | | |
| NHI-E...-PKZ0-C not usable for MSC...-type motor starter combinations. | | | |

Approbationen

| | |
|---------------------------|----------------------------------------------------|
| UL approval | Yes |
| CSA approval | Yes |
| Product Standards | UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking |
| UL File No. | E36332 |
| UL CCN | NLRV |
| CSA File No. | 12528 |
| CSA Class No. | 3211-05 |
| NA Certification | UL listed, CSA certified |
| Specially designed for NA | No |

Auxiliary contacts

| | | | |
|-----------------------------------------------------|------------|---------------|-------|
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 |
| Overtoltage category/pollution degree | | | III/3 |
| Rated operational voltage | U_e | V | |
| | U_e | V AC | 440 |
| | U_e | V DC | 250 |
| Safe isolation to VDE 0106 Part 101 and Part 101/A1 | | | |
| Between auxiliary contacts and main contacts | | V AC | 690 |
| Rated operational current | I_e | A | |
| AC-15 | | | |
| 220 - 240 V | I_e | A | 1 |
| DC-13 L/R - 100 ms | | | |
| 24 V | I_e | A | 2 |
| Lifespan | | S | |
| Lifespan, mechanical | Operations | $\times 10^6$ | > 0.1 |
| Lifespan, electrical | Operations | $\times 10^6$ | 0.1 |

| | | | |
|----------------------------------------------------------------------------------------|--------------|----------------|-------------------------------------------------------|
| Control circuit reliability (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA) | Failure rate | λ | $< 10^{-8} < 1$ failure at 1×10^8 operations |
| Short-circuit rating without welding | | | |
| Fuse | | A gG/ gL | 10 |

Terminal capacities

| | | | |
|------------------------------------------|--|-----------------|------------|
| Solid or flexible conductor with ferrule | | mm ² | 0.75 - 1.5 |
| Solid or stranded | | AWG | 18 - 16 |

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Technical data according to ETIM 4.0

| | | | |
|-------------------------------------------------------|--|---|------------------|
| Suitable for earth leakage circuit breaker | | | No |
| Type of electric connection | | | Screw connection |
| Rated operation current I_e at AC-15, 230 V | | A | 1 |
| Mounting type | | | Front mount |
| Suitable for pendant switch | | | No |
| Suitable for front element | | | No |
| Suitable for circuit-breakers | | | No |
| Suitable for safety position switches | | | No |
| Suitable for step switches | | | No |
| Suitable for pressure switch/selector switch actuator | | | No |
| Suitable for cam switches | | | No |
| Suitable for motor protective circuit breakers | | | YES |
| Suitable for series-mounting relays | | | No |
| Suitable for solenoid | | | No |
| Suitable for compact switch-disconnector | | | No |
| Suitable for miniature circuit-breakers | | | No |
| Suitable for pulse relay | | | No |
| Suitable for contactor relay relay | | | No |

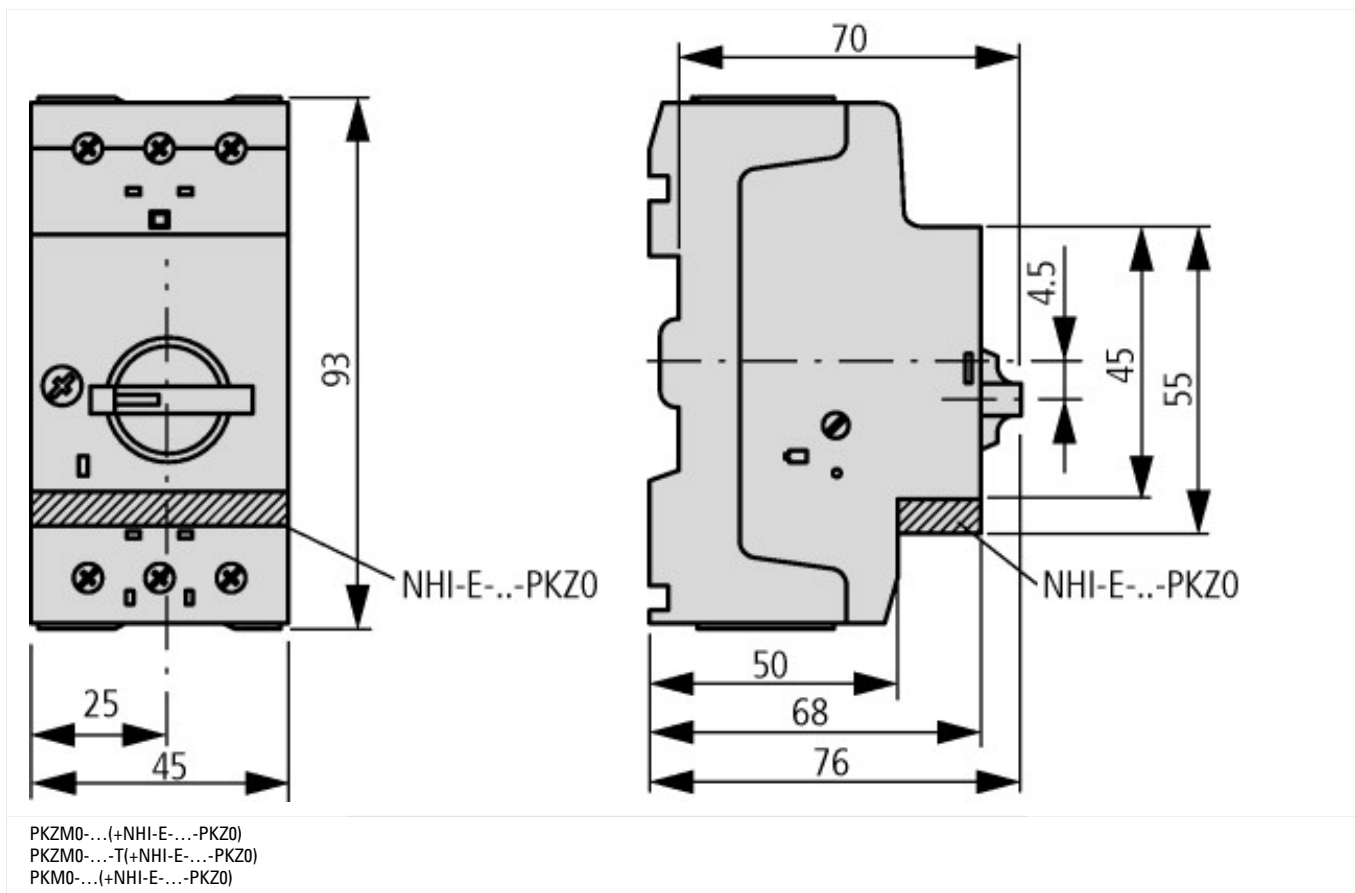
| | | |
|----------------------------------------------------------|--|----|
| Suitable for pendant pushbutton | | No |
| Suitable for residual current device | | No |
| Number of contacts as change-over contact | | 0 |
| Number of contacts as N/O | | 1 |
| Number of contacts as NC | | 1 |
| Suitable for impulse relays | | No |
| Suitable for position switches | | No |
| Suitable for switch-disconnector/residual current device | | No |
| Suitable for contactors | | No |
| Suitable for installation contactor / installation relay | | No |

CAD-Data

Product standards CAD data:

<http://eaton-moeller.partcommunity.com>

Dimensions



Additional product information (links)

| | |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IL03402034Z (IL03402034Z) Motor-protective circuit-breaker, Starter | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402034Z2010_10.pdf |
| IL03801004Z (IL03801004Z) Integrated auxiliary contact | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801004Z2010_07.pdf |
| Motor starters and "Special Purpose Ratings" for the North American market | http://www.moeller.net/binary/ver_techpapers/ver953en.pdf |
| Busbar Component Adapters for modern Industrial control panels | http://www.moeller.net/binary/ver_techpapers/ver960en.pdf |