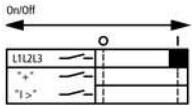
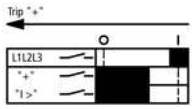
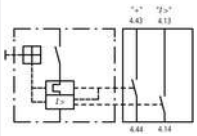


# Trip indicator switch, 2N/O, screw connection

**Part no.** AGM2-10-PKZ0
**Article no.** 072898
**Catalog No.** XTPAXSATR20

## Delivery programme

| | | | |
|---|---|---|---|
| Product range | | | Accessories |
| Accessories | | | Trip-indicating auxiliary contacts |
| | | | Can be retrofitted on the right side of motor-protective circuit-breakers<br>Differential status indication<br>a) General trip indication (overload)<br>b) Short-circuit release<br>Short-circuits indicated locally by means of a red indicator that can be manually reset |
| For use with | | | Trip indicator PKZ0(4), PKE |
| **Contacts** | | | |
| N/O = Normally open | | | 2 x 1 N/O |
| Contact diagram | | |  |
| | | |  |
| Contact sequence | | |  |
| For use with | | | PKZM0<br>PKZM4<br>PKZM0-T<br>PKM0<br>PKZM01<br>PKE |
| Can be combined with auxiliary contact | | | NHI11-PKZ0<br>NHI12-PKZ0<br>NHI21-PKZ0<br>NHI-E-... |

## 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 | x $10^6$ | > 0.01 |
| Lifespan, electrical | Operations | x $10^6$ | 0.05 |
| Control circuit reliability | Failure rate | λ | $<10^{-8}$, < one failure at 100 million operations (at $U_e$ = 24 V DC, $U_{min}$ = 17 V, $I_{min}$ = 5.4 mA) |
| Short-circuit rating without welding | | | |
| Fuseless | | Type | FAZ-B4/1-HI |
| Fuse | | A gG/gL | 10 |

### Terminal capacities

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

## 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 | 0.1 |
| 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 6.0

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

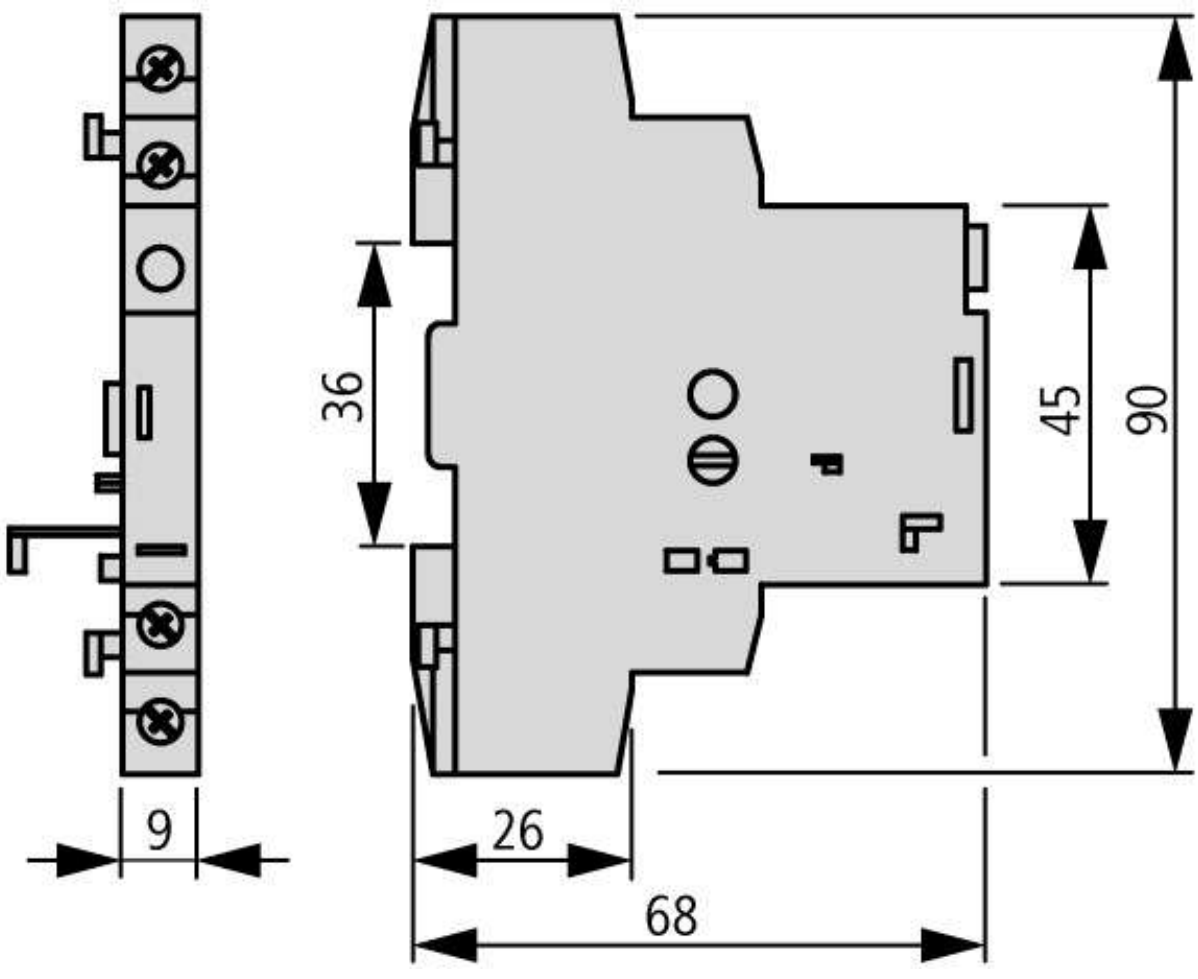
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss8.1-27-37-13-02 [AKN342010])

| | | | |
|---|---|---|---|
| Number of contacts as change-over contact | | | 0 |
| Number of contacts as normally open contact | | | 2 |
| Number of contacts as normally closed contact | | | 0 |
| Rated operation current Ie at AC-15, 230 V | | A | 3.5 |
| Type of electric connection | | | Screw connection |
| Model | | | Top mounting |
| Mounting method | | | Side mounting |

## 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 |

## Dimensions




## Additional product information (links)

**IL03402030Z (AWA1210-1328) Trip-indicating auxiliary contact for PKZM0**

| | |
|---|---|
| IL03402030Z (AWA1210-1328) Trip-indicating auxiliary contact for PKZM0 | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402030Z2010_10.pdf |

| IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter | |
|---|---|
| IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402034Z2014_02.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 |


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