**072899**
**AGM2-01-PKZ0**



Delivery program
Technical data
Design verification as per IEC/EN 61439
Technical data ETIM 7.0
Approvals
Characteristics
Dimensions

# DELIVERY PROGRAM

Product range
Accessories

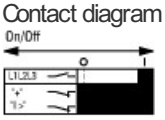
Accessories
Trip-indicating auxiliary contacts

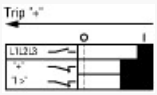
Differential status indication
a) General trip indication (overload)
b) Short-circuit release
Short-circuits indicated locally by means of a red indicator that can be manually reset

## Contacts

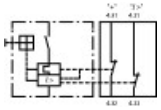
N/C = Normally closed
2 x 1 NC

Contact diagram






Contact sequence



Connection technique
Screw terminals

For use with
Trip indicator PKZ0(4), PKE

For use with
PKZM0
PKZM4
PKZM0-T
PKM0
PKZM01
PKE

Can be combined with auxiliary contact
NHI11-PKZ0
NHI12-PKZ0
NHI21-PKZ0
NHI-E-...

**Notes**
Can be fitted to the right of:
Motor protective circuit-breaker

# TECHNICAL DATA

## Auxiliary contacts

Rated impulse withstand voltage [$U_{imp}$]
6000 V AC

Overvoltage category/pollution degree
III/3

Rated operational voltage [$U_e$] [$U_e$ ]

250 V DC

Safe isolation to EN 61140
Between auxiliary contacts and main contacts
690 V AC

Rated operational current [$I_e$]
AC-15
220 - 240 V [$I_e$]
3.5 A

Rated operational current [$I_e$]
AC-15
380 - 415 V [$I_e$]
2 A

Rated operational current [$I_e$]
AC-15
440 V 500 V [$I_e$]
1 A

Rated operational current [$I_e$]
DC-13 L/R - 100 ms
24 V [$I_e$]
2 A

Rated operational current [$I_e$]
DC-13 L/R - 100 ms
60 V [$I_e$]
1 A

Rated operational current [$I_e$]
DC-13 L/R - 100 ms
110 V [$I_e$]
0.5 A

Rated operational current [$I_e$]
DC-13 L/R - 100 ms
220 V [$I_e$]
0.25 A

Lifespan
Lifespan, mechanical [Operations]
> $0.01 \times 10^6$

Lifespan
Lifespan, electrical [Operations]
$0.05 \times 10^6$

Control circuit reliability [Failure rate]
$<10^{-8}$, < one failure at 100 million operations
(at $U_e$ = 24 V DC, $U_{min}$ = 17 V, $I_{min}$ = 5.4 mA) λ

Short-circuit rating without welding
Fuseless
FAZ-B4/1-HI Type

Short-circuit rating without welding
Fuse
10 A gG/gL

## Terminal capacities

Solid or flexible conductor, with ferrule
0,75 - 2,5 $mm^2$

Solid or stranded
18 - 14 AWG

## Rating data for approved types

Pilot Duty
AC operated
A600

Pilot Duty
DC operated
Q300

General Use
AC
600 V

General Use
AC
5 A

General Use
DC
250 V

General Use
DC
1 A

# DESIGN VERIFICATION AS PER IEC/EN 61439

## Technical data for design verification

Rated operational current for specified heat dissipation [$I_n$]
3.5 A

Heat dissipation per pole, current-dependent [$P_{vid}$]
0.1 W

Equipment heat dissipation, current-dependent [$P_{vid}$]
0 W

Static heat dissipation, non-current-dependent [$P_{vs}$]
0 W

Heat dissipation capacity [$P_{diss}$]
0 W

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.
+55 °C

## 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 Strength of materials and parts
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
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 Insulation properties
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.

10.9 Insulation properties
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
0

Number of contacts as normally closed contact
2

Number of fault-signal switches
1

Rated operation current Ie at AC-15, 230 V
3.5 A

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

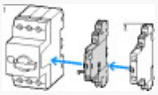
CSA File No.
165628

CSA Class No.
3211-05

North America Certification
UL listed, CSA certified

Specially designed for North America
No

## CHARACTERISTICS



Accessories
1: Motor-protective circuit-breakers
2: Standard auxiliary contact

## DIMENSIONS