157862
U-PKZ0(24VDC)

DELIVERY PROGRAM

Product range
Accessories

Accessories
Undervoltage release

Actuating voltage
24 V DC

Voltage type
Standard voltage

Current actuation
DC

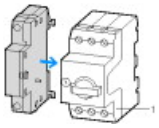
Contact sequence

Connection technique
Screw terminals

For use with
Undervoltage release PKZ0(4), PKE

For use with
PKZM0
PKZM4
PKZM0-T
PKM0
PKZM01
PKE

Notes



1 Motorschutzschalter

Notes
Can be fitted to the left of:
Motor protective circuit-breaker
Cannot be combined with:
A-PKZ0 shunt release
When combined with circuit-breaker can be used as emergency switching-off device according to EN 60204.

TECHNICAL DATA

General

Terminal capacities
Solid or flexible conductor, with ferrule
1 x (0,75 - 2,5)
2 x (0,75 - 2,5) mm^2

Terminal capacities
Solid or stranded
1 x (18 - 14)
2 x (18 - 14) AWG

Actuating voltage
24 V DC

Pick-up-/drop-out voltage

Pick-up voltage
0,85 - 1,1 x U_c

Drop-out voltage
0,7- 0,35 x U_c

Power consumption

DC current
Pull-in power [Pick-up]
3 W

DC current
Sealing power [Sealing]
0.5 W

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n]
0 A

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

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

Static heat dissipation, non-current-dependent [P_{vs}]
0.5 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) / Under voltage coil (EC001022)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Undervoltage trip (ecl@ss10.0.1-27-37-04-17 [AKF015013])

Rated control supply voltage Us at AC 50HZ
0 - 0 V

Rated control supply voltage Us at AC 60HZ
0 - 0 V

Rated control supply voltage Us at DC
24 - 24 V

Voltage type for actuating
DC

Type of electric connection
Screw connection

Number of contacts as normally open contact
0

Number of contacts as normally closed contact
0

Number of contacts as change-over contact
0

Delayed
No

Suitable for power circuit breaker
No

Suitable for off-load switch
No

Suitable for motor safety switch
Yes

Suitable for overload relay
No

APPROVALS

Product Standards
UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking

UL File No.
E36332

UL Category Control No.
NLRV

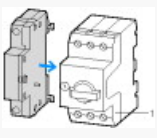
CSA File No.
165628

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

DIMENSIONS