



199180
PKZM0-0,63-SP116

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as
per IEC/EN 61439

Technical data ETIM8.0

Approvals

Dimensions

DELIVERY PROGRAM

Product range
PKZM0 motor protective circuit-breakers up to 32
A

Basic function
Motor protection



Notes
Also suitable for motors with efficiency class IE3.

Connection technique
Feed-side screw terminals/output-side push-in
terminals

Max. motor rating

AC-3
220 V 230 V 240 V [P]

0.09 kW

AC-3
380 V 400 V 415 V [P]
0.12 kW

AC-3
440 V [P]
0.18 kW

AC-3
500 V [P]
0.25 kW

AC-3
660 V 690 V [P]
0.25 kW

Rated uninterrupted current [I_u]
0.63 A

Setting range

Overload releases  [I_r]
0.4 - 0.63 A

short-circuit release  [I_{rm}]
max. [I_{rm}]
9.8 A

Phase-failure sensitivity
IEC/EN 60947-4-1, VDE 0660 Part 102

TECHNICAL DATA

General

Standards
IEC/EN 60947, VDE 0660, UL, CSA

Climatic proofing
Damp heat, constant, to IEC 60068-2-78

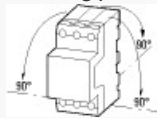
Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature
Storage
- 40 - 80 °C

Ambient temperature
Open
-25 - +55 °C

Ambient temperature
Enclosed
- 25 - 40 °C

Mounting position



Direction of incoming supply
as required

Degree of protection
Device
IP20

Degree of protection
Terminations
IP00

Protection against direct contact when actuated
from front (EN 50274)
Finger and back-of-hand proof

Mechanical shock resistance half-sinusoidal shock
10 ms to IEC 60068-2-27
25 g

Altitude
Max. 2000 m

Terminal capacity main cable
Screw terminals
Solid
1 x (1 - 6)
2 x (1 - 6) mm²

Terminal capacity main cable
Screw terminals
Flexible with ferrule to DIN 46228
1 x (1 - 6)
2 x (1 - 6) mm²

Terminal capacity main cable
Screw terminals
Solid or stranded
18 - 10 AWG

Terminal capacity main cable
Screw terminals
Stripping length
10 mm

Terminal capacity main cable
Push-in terminals
Solid
1 x (0,5 - 2,5)
2 x (0,5 - 2,5) mm²

Terminal capacity main cable
Push-in terminals
flexible
1 x (0,5 - 2,5)
2 x (0,5 - 2,5) mm²

Terminal capacity main cable
Push-in terminals
flexible with ferrules
1 x (0,5 - 1,5)
2 x (0,5 - 1,5) mm²

Terminal capacity main cable
Push-in terminals
flexible with ultrasonic welded busbar end
1 x (0,5 - 2,5)
2 x (0,5 - 2,5) mm²

Terminal capacity main cable
Push-in terminals
flexible with uninsulated wire end ferrule
1 x (0,5 - 2,5)
2 x (0,5 - 2,5) mm²

Terminal capacity main cable
Push-in terminals
Solid or stranded
20 - 14 AWG

Terminal capacity main cable

Push-in terminals
Stripping length
10 mm

Terminal capacity main cable
Push-in terminals
Standard screw driver
3.0 x 0.5

Specified tightening torque for terminal screws
Main cable
1.7 Nm

Main conducting paths

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

Overvoltage category/pollution degree
III/3

Rated operational voltage [U_e]
690 V AC

Rated uninterrupted current = rated operational
current [$I_u = I_e$]
0.63 A

Rated frequency [f]
40 - 60 Hz

Current heat loss (3 pole at operating temperature)
5.16 W

Impedance per pole
4200 m Ω

Lifespan, mechanical [Operations]
0.1 x 10⁶

Lifespan, electrical (AC-3 at 400 V)
Lifespan, electrical [Operations]
0.1 x 10⁶

Max. operating frequency

40 Ops/h

Motor switching capacity
AC-3 (up to 690V)
0.63 A

Trip blocks

Temperature compensation
to IEC/EN 60947, VDE 0660
- 5...40 °C

Temperature compensation
Operating range
- 25...55 °C

Temperature compensation residual error for $T > 40\text{ °C}$
 $\square 0.25\text{ \%/K}$

Setting range of overload releases
 $0.6 - 1 \times I_n$

short-circuit release
Basic device, fixed: $15.5 \times I_n$

Short-circuit release tolerance
 $\pm 20\%$

Phase-failure sensitivity
IEC/EN 60947-4-1, VDE 0660 Part 102

Rating data for approved types

Switching capacity
Maximum motor rating
Three-phase
200 V
208 V
Hinweis: Motorleistung in diesem Bereich nach
Bemessungsstrom berechnen. Angegebene Werte
nach NEC Table 430-150 HP

Switching capacity
Maximum motor rating
Three-phase
230 V

240 V

Hinweis: Motorleistung in diesem Bereich nach
Bemessungsstrom berechnen. Angegebene Werte
nach NEC Table 430-150 HP

Switching capacity

Maximum motor rating

Three-phase

460 V

480 V

Hinweis: Motorleistung in diesem Bereich nach
Bemessungsstrom berechnen. Angegebene Werte
nach NEC Table 430-150 HP

Switching capacity

Maximum motor rating

Three-phase

575 V

600 V

Hinweis: Motorleistung in diesem Bereich nach
Bemessungsstrom berechnen. Angegebene Werte
nach NEC Table 430-150 HP

Short Circuit Current Rating, type E

240 V

65 kA

Short Circuit Current Rating, type E

480 Y / 277 V

65 kA

Short Circuit Current Rating, type E

600 Y / 347 V

50 kA

Short Circuit Current Rating, type E

Accessories required

BK25/3-PKZ0-E

Short Circuit Current Rating, group protection

600 V High Fault

SCCR (fuse)

50 kA

Short Circuit Current Rating, group protection

600 V High Fault

max. Fuse

600 A

Short Circuit Current Rating, group protection

600 V High Fault

SCCR (CB)

50 kA

Short Circuit Current Rating, group protection
600 V High Fault
max. CB
600 A

DESIGN VERIFICATION AS PER IEC/EN 61439

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.
+55 °C

TECHNICAL DATA ETIM 8.0

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ec1@ss10.0.1-27-37-04-01 [AGZ529016])

Overload release current setting
0.4 - 0.63 A

Adjustment range undelayed short-circuit release
9.8 - 9.8 A

With thermal protection
Yes

Phase failure sensitive
Yes

Switch off technique
Thermomagnetic

Rated operating voltage
690 - 690 V

Rated permanent current I_n
0.63 A

Rated operation power at AC-3, 230 V
0.09 kW

Rated operation power at AC-3, 400 V
0.12 kW

Type of electrical connection of main circuit
Spring clamp connection

Type of control element
Turn button

Device construction
Built-in device fixed built-in technique

With integrated auxiliary switch
No

With integrated under voltage release
No

Number of poles
3

Rated short-circuit breaking capacity I_{cu} at 400 V,
AC
150 kA

Degree of protection (IP)
IP20

Height
94 mm

Width
45 mm

Depth
75 mm

APPROVALS

Product Standards
IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No.
60947-4-1-14; CE marking

UL File No.
E36332

UL Category Control No.
NLRV

CSA File No.
165628

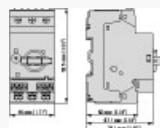
CSA Class No.
3211-05

North America Certification
UL listed, CSA certified

Specially designed for North America
No

Suitable for
Branch circuit: Manual type E if used with terminal,
or suitable for group installations

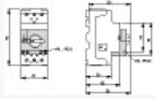
DIMENSIONS



Motor-protective circuit-breaker with standard
auxiliary contact
PKZM0-...(+NH-E...-PKZ0)
PKZM0-...-T(+NH-E...-PKZ0)
PKM0-...(+NH-E...-PKZ0)



Motor-protective circuit-breakers with lockable
rotary handles
PKZMD-...+AK-PKZO



Motor-protective circuit-breakers with early-make
auxiliary contacts
PKZMD-...+VHI-...-PKZO



[Generate data sheet in PDF format](#)



[Generate data sheet in Excel format](#)



[Write a comment](#)