



199168 PKZM0-1,6-T-PI

Overview

Specifications

Resources

PKZM0...T transformer-protective circuit-breakers







## **DELIVERY PROGRAM**

Product range

up to 25 A

Delivery program

Technical data

Design verification as per IEC/EN 61439

por 124 24 0 1 100

Technical data ETIM 8.0



Basic function

Transformer protection

Dimensions

Notes

Also suitable for motors with efficiency class IE3.

Connection technique Push in terminals

Contact sequence



Rated uninterrupted current  $[I_u]$  1.6 A

#### **Setting range**

Overload releases [l<sub>r</sub>] 1 - 1.6 A

short-circuit release | [l<sub>rm</sub>] max. [l<sub>rm</sub>] 32 A

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

#### Notes

For the protection of transformers with a high inrush current.

Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.

## **TECHNICAL DATA**

#### **General**

Standards IEC/EN 60947, VDE 0660

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 IP20

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  $\,25\,\mathrm{g}$ 

Altitude Max. 2000 m

Terminal capacity main cable Push-in terminals Solid 1 x (1 - 6) 2 x (1 - 6) mm<sup>2</sup>

Terminal capacity main cable Push-in terminals flexible 1 x (1 - 6) 2 x (1 - 6) mm<sup>2</sup>

Terminal capacity main cable Push-in terminals flexible with ferrules 1 x (1 - 6) 2 x (1 - 4) mm<sup>2</sup>

Terminal capacity main cable Push-in terminals

flexible with ultrasonic welded busbar end 1 x (1 - 10) 2 x (1 - 6) mm<sup>2</sup> Terminal capacity main cable Push-in terminals flexible with uninsulated wire end ferrule 1 x (1 - 10) 2 x (1 - 6) mm<sup>2</sup> Terminal capacity main cable Push-in terminals Solid or stranded 18 - 8 AWG Terminal capacity main cable Push-in terminals Stripping length 12 mm Terminal capacity main cable Push-in terminals Standard screwdriver  $3.0 \times 0.5$ Main conducting paths Rated impulse with stand voltage  $[U_{imp}]$ 6000 V AC Overvoltage category/pollution degree 111/3 Rated operational voltage [U<sub>e</sub>] 690 V AC Rated uninterrupted current = rated operational current  $[l_u = l_e]$ 1.6 A Rated frequency [f] 40 - 60 Hz

4.92 W

Ourrent heat loss (3 pole at operating temperature)

 $0.1 \times 10^6$ 

Lifespan, electrical (AC-3 at 400 V) Lifespan, electrical [Operations] 0.1 x 10<sup>6</sup>

Max. operating frequency 40 Ops/h

Short-circuit rating DC Short-circuit rating 60 kA

Motor switching capacity AC-3 (up to 690V) 1.6 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 °C  $\hfill\Box$  0.25 %/K

Setting range of overload releases 0.6 - 1 x  $I_{\rm u}$ 

short-circuit release Basic device, fixed: 20 x l<sub>u</sub>

Short-circuit release tolerance ± 20%

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

### **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) / Power circuit-breaker for trafo/generator/installation protection (EC000228) Bectric engineering, automation, process control engineering / Low-voltage switch technology / Orcuit breaker (LV < 1 kV) / Orcuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013]) Rated permanent current lu 1.6 A Rated voltage 690 - 690 V Rated short-circuit breaking capacity Icu at 400 V, 50 Hz 150 kA Overload release current setting 1.6 - 1.6 A Adjustment range short-term delayed short-circuit release 0-0A Adjustment range undelayed short-circuit release 32 - 32 A

Type of electrical connection of main circuit Spring clamp connection

Integrated earth fault protection

No

Device construction Other
Suitable for DIN rail (top hat rail) mounting Yes
DIN rail (top hat rail) mounting optional Yes
Number of auxiliary contacts as normally closed contact 0
Number of auxiliary contacts as normally open contact
Number of auxiliary contacts as change-over contact 0
With switched-off indicator Yes
Number of poles 3
Position of connection for main current circuit Other
Type of control element Turn button
Complete device with protection unit Yes
Motor drive integrated No
Motor drive optional No

Degree of protection (IP)

IP20

# **DIMENSIONS**









Imprint | Privacy Policy | Legal Disclaimer | Terms and Conditions © 2022 by Eaton Industries GmbH