



Motor-prot.circuit breaker PKZM01-10

Part no. **PKZM01-10**

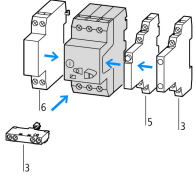
Article no. **278484**



Delivery programme

| | | | |
|-----------------------------|----------|----|------------|
| 220 – 240 V | | | |
| AC-3 | | | |
| 220 V 230 V 240 V | P | kW | 2.2 |
| 380 V 400 V 415 V | P | kW | 4 |
| 440 V | P | kW | 4 |
| Rated uninterrupted current | I_u | A | 10 |
| Setting range | | | |
| Overload releases | I_r | A | 6.3 ... 10 |
| Short-circuit releases | I_{rm} | A | |

Notes



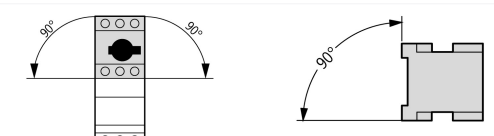
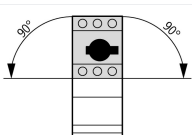
Accessories

3 Standard auxiliary contact
 5 Trip-indicating auxiliary contact
 6 Shunt release, undervoltage release
 Single-phasing sensitivity according to IEC/EN 60947#4#1, VDE 0660 Part 102.
 Can be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height

Page

072896
 # 072898
 # 073187

General

| | | | |
|---|--|-----------------|---|
| Standards | | | IEC/EN 60947, VDE 0660, UL 508, CSA C 22.2 No. 14 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | °C | |
| Storage | | °C | – 25 - 80 |
| Open | | °C | – 25 ... 55 |
| Enclosed | | °C | - 25 ... 40 |
| Mounting position | | |  |
| Mounting position | | |  |
| Direction of incoming supply | | | As required |
| Degree of protection | | | |
| Device | | | IP 20 |
| Terminations | | | IP00 |
| Protection against direct contact | | | Finger and back-of-hand proof |
| Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27 | | g | 25 |
| Altitude | | m | 2000 |
| Terminal capacity screw terminals | | mm ² | |
| Solid | | mm ² | 1 × (1 – 6) 2 × (1 – 6) |
| Flexible with ferrule to DIN 46228 | | mm ² | 1 × (1 – 6) |

| | | | |
|---|--|-----|-------------|
| | | | 2 × (1 – 6) |
| Solid or stranded | | AWG | 18 – 10 |
| Specified tightening torque for terminal screws | | | |
| Main cable | | Nm | 1.7 |
| Control circuit cables | | Nm | 1 |

Main conducting paths

| | | | |
|---|-------------|---------------|--|
| Rated impulse withstand voltage | U_{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated operational voltage | U_e | V AC | 690 |
| Rated uninterrupted current = rated operational current | $I_u = I_e$ | A | 16 or current setting of the overcurrent release |
| Rated frequency | | Hz | 40 – 60 |
| Current heat loss (3 pole at operating temperature) | | W | 6 |
| Lifespan, mechanical | Operations | $\times 10^6$ | 0.05 |
| Lifespan, electrical (AC-3 at 400 V) | Operations | $\times 10^6$ | 0.05 |
| Maximum operating frequency | | Ops./h | |
| Max. operating frequency | | Ops/h | 25 |
| Short-circuit rating | | | |
| AC | | | |
| | | | # Engineering |
| DC | | | |
| Short-circuit rating | | kA | 60 |
| Short-circuit rating | | | 60 |
| Motor switching capacity | | kA_{rms} | |
| AC-3 (up to 690 V) | | A | 16 |
| DC-5 (up to 250 V) | | A | 16 (3 contacts in series) |

Trip blocks

| | | | |
|--|--|--------------|-------------------------------------|
| Temperature compensation | | | |
| to IEC/EN 60947, VDE 0660 | | °C | – 5 ... 40 |
| Operating range | | °C | – 25 ... 55 |
| Temperature compensation residual error for $T \geq 40$ °C | | %/K | ≤ 0.25 |
| Setting range of overload releases | | $\times I_u$ | 0.6 – 1 |
| Short-circuit release fixed | | $\times I_u$ | 14 |
| Short-circuit release tolerance | | % | ± 20 |
| Phase-failure sensitivity | | | IEC/EN 60947-4-1, VDE 0660 Part 102 |



Motor-protective circuit-breaker tripping characteristic (high-capacity) compact starter, PKZM0-...T (not for PKM0-...), PKZM01

Dimensions

