DATASHEET - PKZM0-32

Motor-protective circuit-breaker, 3p, Ir=25-32A Part no.

Catalog No.

No.

PKZM0-32 278489 Alternate Catalog XTPR032BC1NL





EL-Nummer 4365084 (Norway)

Delivery program

| Product range | | | PKZM0 motor protective circuit-breakers up to 32 A |
|---|-----------------|----|---|
| Basic function | | | Motor protection |
| | | | IE3 🗸 |
| Notes | | | Also suitable for motors with efficiency class IE3. |
| Connection technique | | | Screw terminals |
| Contact sequence | | | |
| Max. motor rating | | | |
| AC-3 | | | |
| 220 V 230 V 240 V | Р | kW | 7.5 |
| 380 V 400 V 415 V | Р | kW | 15 |
| 440 V | Р | kW | 15 |
| 500 V | Р | kW | 22 |
| 660 V 690 V | Р | kW | 30 |
| Rated uninterrupted current | lu | А | 32 |
| Setting range | | | |
| Overload releases | I _r | A | 25 - 32 |
| short-circuit release | | | |
| max. | I _{rm} | А | 496 |
| Phase-failure sensitivity | | | IEC/EN 60947-4-1, VDE 0660 Part 102 |
| Notes Overload trigger: tripping class 10 A 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,UL, CSA |
| Climatic proofing | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | |
| Storage | °C | - 40 - 80 |
| Open | °C | -25 - +55 |
| Enclosed | °C | - 25 - 40 |
| Mounting position | | 90° 90° |
| Direction of incoming supply | | as required |

| Degree of protection | | | |
|---|---------------------------------|-------------------|--|
| Degree of protection Device | | | IP20 |
| | | | |
| 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 | | g | 25 |
| Altitude | | m | Max. 2000 |
| Terminal capacity main cable | | | |
| Screw terminals | | | |
| Solid | | mm ² | 1 x (1 - 6) 2 x (1 - 6) |
| Flexible with ferrule to DIN 46228 | | mm ² | 1 x (1 - 6) 2 x (1 - 6) |
| Solid or stranded | | AWG | 18 - 10 |
| Stripping length | | mm | 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 | | | 111/3 |
| Rated operational voltage | Ue | V AC | 690 |
| Rated uninterrupted current = rated operational current | I _u = I _e | A | 32 |
| Rated frequency | f | Hz | 40 - 60 |
| Current heat loss (3 pole at operating temperature) | | W | 9.56 |
| Impedance per pole | | mΩ | 3 |
| Lifespan, mechanical | Operations | x 10 ⁶ | 0.1 |
| | operations | X 10° | |
| Lifespan, electrical (AC-3 at 400 V) | | | |
| Lifespan, electrical | Operations | x 10 ⁶ | 0.1 |
| Max. operating frequency | | Ops/h | 40 |
| Short-circuit rating | | | |
| DC | | | |
| Short-circuit rating | | kA | 40 |
| Notes | | | up to 250 V |
| Motor switching capacity | | | |
| AC-3 (up to 690V) | | А | 32 |
| DC-5 (up to 250V) | | А | 25 (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 > 40 $^{\circ}\mathrm{C}$ | | | ≦ 0.25 %/K |
| Setting range of overload releases | | x I _u | 0.6 - 1 |
| short-circuit release | | | Basic device, fixed: 15.5 x l _u |
| Short-circuit release tolerance | | | ± 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 | | HP | 7.5 |
| 230 V 240 V | | HP | 10 |
| 460 V 480 V | | HP | 20 |
| 575 V 600 V | | HP | 25 |
| Single-phase | | | |
| Salgio piluoo | | | |

| 230 V 240 V | HP | 5 |
|--|------|---------------|
| Short Circuit Current Rating, type E | SCCR | |
| 240 V | kA | 18 |
| 480 Y / 277 V | kA | 18 |
| Accessories required | | BK25/3-PKZ0-E |
| Short Circuit Current Rating, group protection | SCCR | |
| 600 V High Fault | | |
| SCCR (fuse) | kA | 10 |
| max. Fuse | А | 150 |
| SCCR (CB) | kA | 10 |
| max. CB | А | 125 |
| SCCR with CL (fuse) | А | 18 |
| max. Fuse (with CL) | А | 600 |
| SCCR with CL (CB) | kA | 18 |
| max. CB (with CL) | А | 600 |

Design verification as per IEC/EN 61439

| Technical data for design varieties on projection of specified hear dissipationImage of the specified | 5 1 1 1 1 1 1 | | | |
|--|--|-------------------|----|--|
| Host dissipation per pole, current-dependent Pud W 319 Equipment heat dissipation, current-dependent Pud W 958 State heat dissipation, current-dependent Pud W 0 Operating ambient temperature mix. *C 25 Operating ambient temperature mix. *C 55 IECEN 51439 design verification of temsits and parts *C 56 10.2.2 Strength of materials and parts *C 56 10.2.2 Strength of materials and parts *C 56 10.2.2 Strength of materials and parts *C *C 10.2.2 Strength of materials and parts *C *C 10.2.2 Strength of materials and parts *C *C 10.2.3 Verification of fersitiance of insulating materials to abnormal heat and fire duri tentrend electric electrics *Meets the product standard's requirements. 10.2.3 Verification of fersitiance of insulating materials to abnormal heat and fire duri tentrend electric electrics *Meets the product standard's requirements. 10.2.3 Mechanical impact *Meets the product standard's requirements. *Meets the product standard's requirements. 10.2.3 Mechanical impact *Meets the product s | Technical data for design verification | | | |
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| Stric heat dissipation, non-current-dependent Pm W Image: Pm Pm W Beat dissipation capacity Pain VM 0 </td <td>Heat dissipation per pole, current-dependent</td> <td>P_{vid}</td> <td>W</td> <td>3.19</td> | Heat dissipation per pole, current-dependent | P _{vid} | W | 3.19 |
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| 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 | 10.9.3 Impulse withstand voltage | | | Is the panel builder's responsibility. |
| 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 Image: Compatibility of the switchgear must be observed. | 10.9.4 Testing of enclosures made of insulating material | | | Is the panel builder's responsibility. |
| 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 | 10.10 Temperature rise | | | |
| 10.13 Mechanical function observed. | 10.11 Short-circuit rating | | | |
| | 10.12 Electromagnetic compatibility | | | |
| | 10.13 Mechanical function | | | |

Technical data ETIM 7.0

| Electric engineering, automation, process control engineering / Low-voltage | e switch technology | Circuit br | eaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01 |
|---|---------------------|------------|--|
| [AGZ529016]) | | | |
| Overload release current setting | | А | 32 - 32 |
| Adjustment range undelayed short-circuit release | | А | 496 - 496 |
| With thermal protection | | | Yes |
| Phase failure sensitive | | | Yes |
| Switch off technique | | | Thermomagnetic |
| Rated operating voltage | | V | 690 - 690 |
| Rated permanent current lu | | А | 32 |
| Rated operation power at AC-3, 230 V | | kW | 7.5 |
| Rated operation power at AC-3, 400 V | | kW | 15 |
| Type of electrical connection of main circuit | | | Screw 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 Icu at 400 V, AC | | kA | 50 |
| Degree of protection (IP) | | | IP20 |
| Height | | mm | 93 |
| Width | | mm | 45 |

Approvals

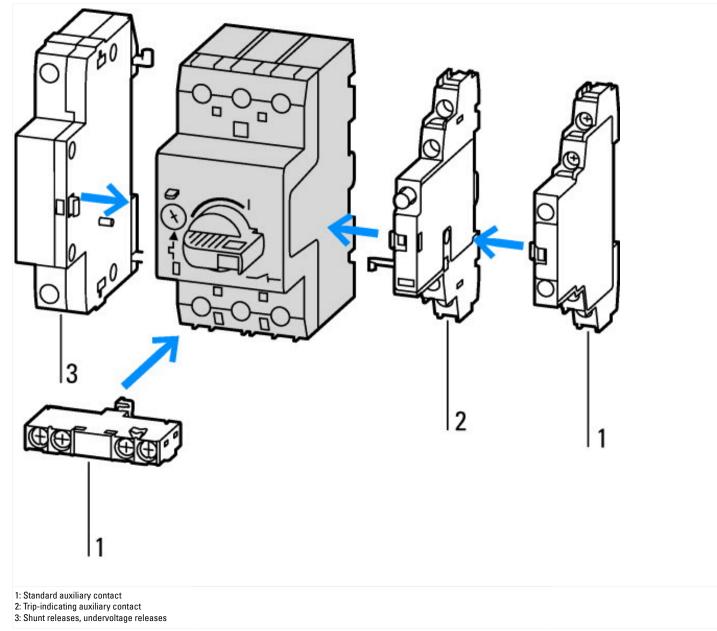
Depth

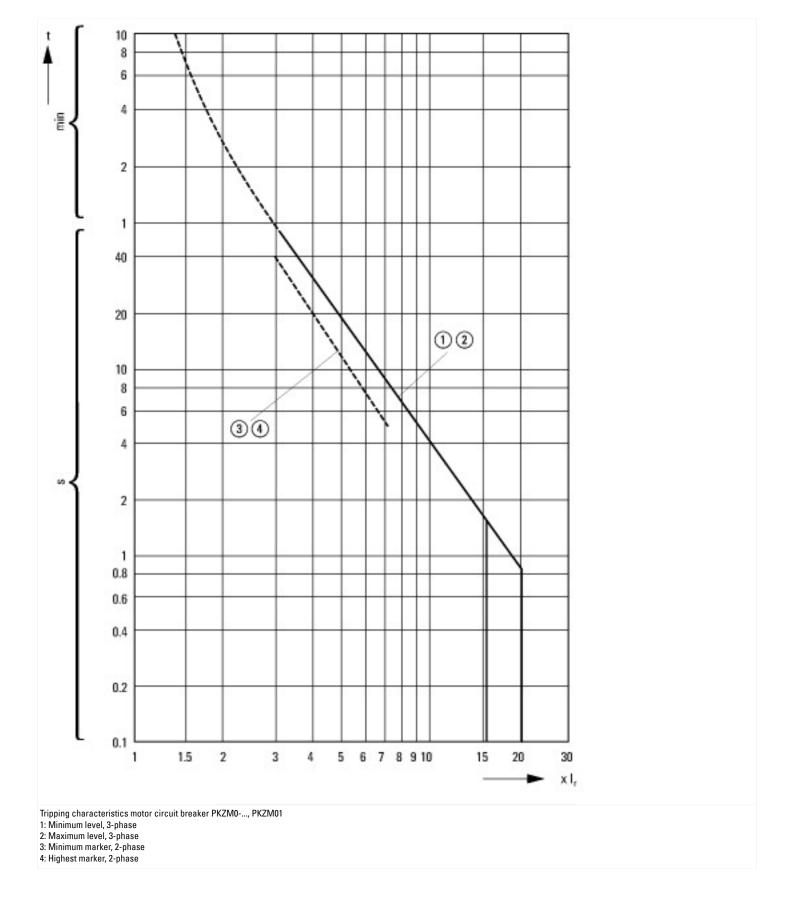
| L File No. E36322 L Category Control No. NLRV SA File No. SA File No. SA File No. Sa File No. Sa Catason Sa Ca | | |
|--|--------------------------------------|--|
| L Category Control No. NLRV SA File No. 165628 SA Class No. SA Class No. lorth America Certification Image: Certification pecially designed for North America Image: Certification uitable for Image: Certification | Product Standards | IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking |
| SA File No. Image: Constraint of the second of the sec | UL File No. | E36332 |
| SA Class No. 3211-05 Iorth America Certification UL listed, CSA certified pecially designed for North America No uitable for Branch circuit: Manual type E if used with terminal, or suitable for group | UL Category Control No. | NLRV |
| Iorth America Certification Image: Certification pecially designed for North America Image: Certification uitable for Image: Certification | CSA File No. | 165628 |
| pecially designed for North America No uitable for Branch circuit: Manual type E if used with terminal, or suitable for group | CSA Class No. | 3211-05 |
| uitable for Branch circuit: Manual type E if used with terminal, or suitable for group | North America Certification | UL listed, CSA certified |
| | Specially designed for North America | No |
| | Suitable for | |

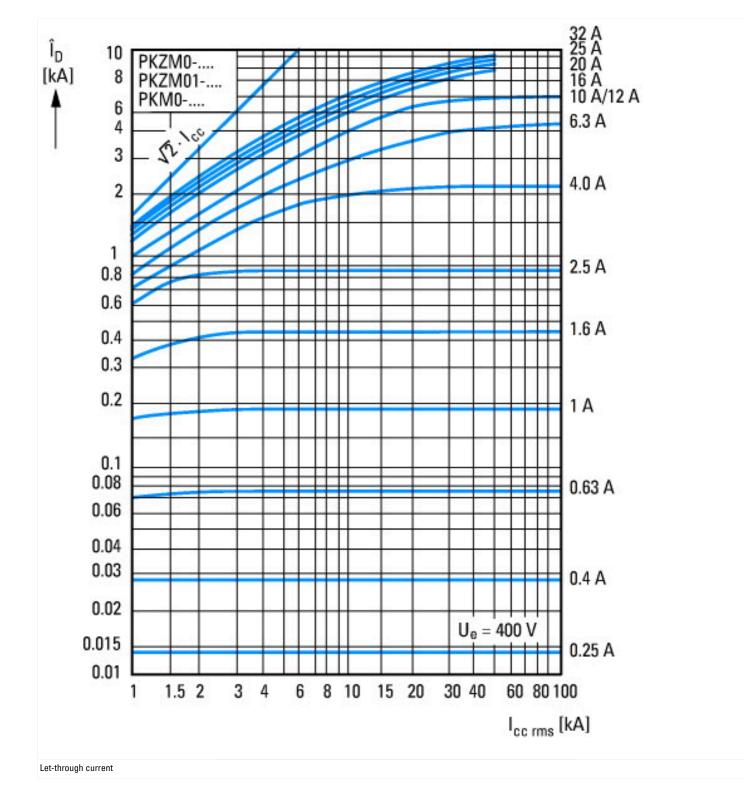
76

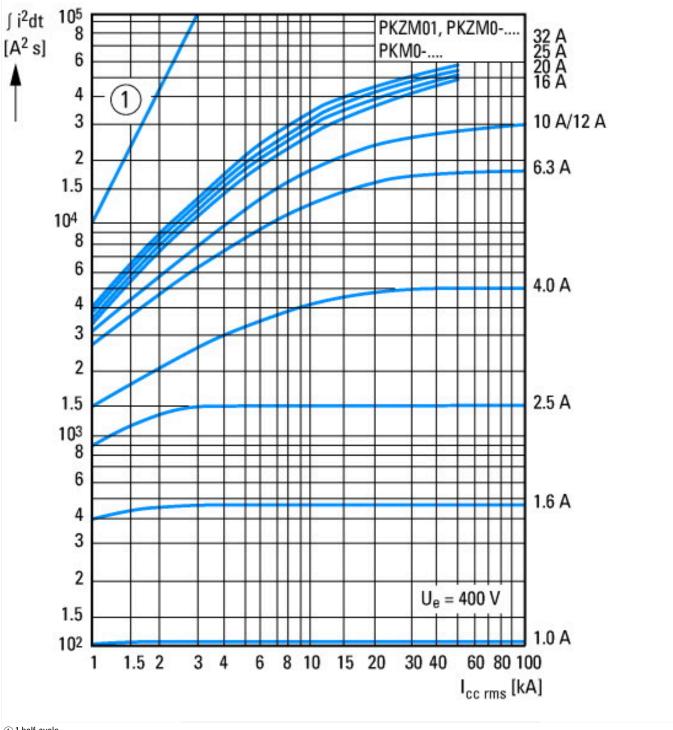
mm

Characteristics









① 1 half-cycle Let-through energy

Dimensions

