DATASHEET - PKZM0-32

Motor-protective circuit-breaker, 3p, Ir=25-32A

PKZM0-32 278489 Alternate Catalog XTPR032BC1NL



No. **EL-Nummer** (Norway)

Part no. Catalog No.

4365084

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 | Ρ | kW | 15 |
| 500 V | Ρ | kW | 22 |
| 660 V 690 V | Р | kW | 30 |
| Rated uninterrupted current | l _u | 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 | ٥ | °C | - 40 - 80 |
| Open | 0 | °C | -25 - +55 |
| Enclosed | o | °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 | | | |
| Equipment herd dissipation, current-dependent Paid W 958 Static heat dissipation, current-dependent Paid W 0 Heat dissipation capacity Paids W 0 Operating ambient temperature min. C 25 Operating ambient temperature max. C 30 IB2.Strength of materials and parts C 40 102.2 Correlation estitution of transitions of insulating materials to normal heat Meets the product standard's requirements. 102.23 Varification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.23 Varification of resistance of insulating materials to abnormal heat Meets the product standard's requirements. 102.23 Varification of resistance of insulating materials to abnormal heat Does not apply, since the entrice switchgear needs to be evaluated. 102.24 Resistance to ultra videt (W) radiation Meets the product standard's requirements. 102.25 Uring Does not apply, since the entrice switchgear needs to be evaluated. 102.25 Lifting Does not apply, since the entrice switchgear needs to be evaluated. 102.40 Learnaces and creapsog distances Does not apply, since the entrice switchgear neads to be evaluated. < | Rated operational current for specified heat dissipation | In | А | 32 |
| 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 |
| Heat dissipation capacityPointPointPointOperating ambient temperature min.rC-25Operating ambient temperature max.rC55IECEN 1438 design verificationrC5610.22 Strength of metarials and partsrCMeets the product standard's requirements.10.23 Corresion resistanceof nesting of nesting of nesting of neclosuresMeets the product standard's requirements.10.23 Corresion resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.23 Lytification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.23 Lytification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.23 Lytification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.24 Resistance to uitra-violet (UV) radiationMeets the product standard's requirements.10.25 DescriptionsMeets the product standard's requirements.10.25 DescriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDes not apply, since the entire switchgear needs to be evaluated.10.45 Protection against electric shockMeets the product standard's requirements.10.51 Notrceine against electric shockMeets the product standard's requirements.10.52 Demections for external conductorsIs the panel builder's responsibility.10.51 Strottection against electric shockMeets the product standard's requirements.10.52 Demections for external conductors< | Equipment heat dissipation, current-dependent | P _{vid} | W | 9.56 |
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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

| ow-voltage industrial components (EG000017) / Motor protection circuit-break | er (EC000074) | | |
|---|--------------------|------------|--|
| Electric engineering, automation, process control engineering / Low-voltage sw AGZ529016]) | ritch technology / | Circuit br | eaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01 |
| Overload release current setting | | А | 32 - 32 |
| Adjustment range undelayed short-circuit release | | А | 496 - 496 |
| Nith 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 |
| lated operation power at AC-3, 400 V | | kW | 15 |
| ype of electrical connection of main circuit | | | Screw connection |
| ype of control element | | | Turn button |
| levice construction | | | Built-in device fixed built-in technique |
| Vith integrated auxiliary switch | | | No |
| Vith integrated under voltage release | | | No |
| Number of poles | | | 3 |
| lated short-circuit breaking capacity Icu at 400 V, AC | | kA | 50 |
| legree of protection (IP) | | | IP20 |
| leight | | mm | 93 |
| Vidth | | mm | 45 |

Approvals

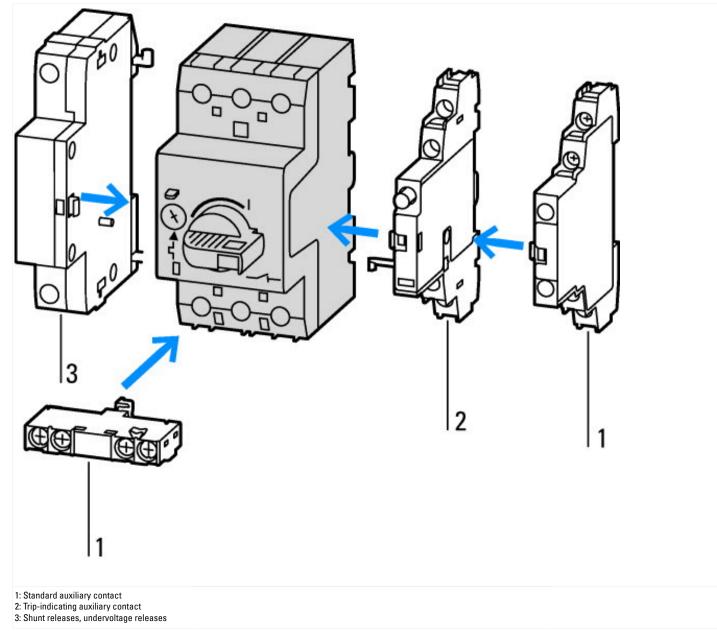
Depth

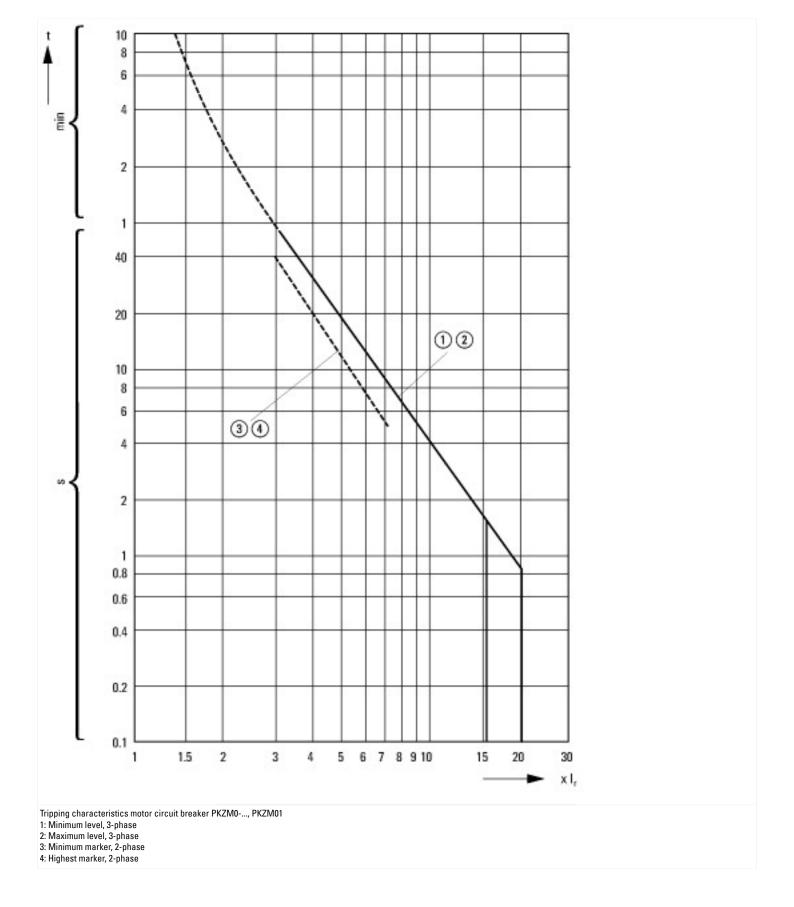
| uct Standards IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking le No. E36332 ategory Control No. NLRV |
|---|
| |
| ategory Control No. NLRV |
| |
| File No. 165628 |
| Class No. 3211-05 |
| h America Certification UL listed, CSA certified |
| sially designed for North America No |
| able for Branch circuit: Manual type E if used with terminal, or suitable for group installations |

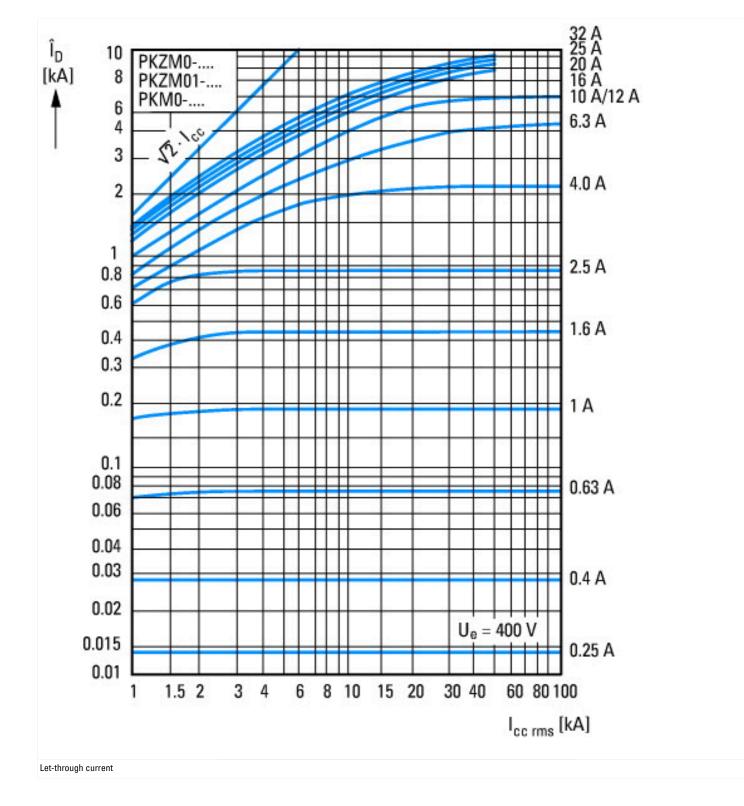
76

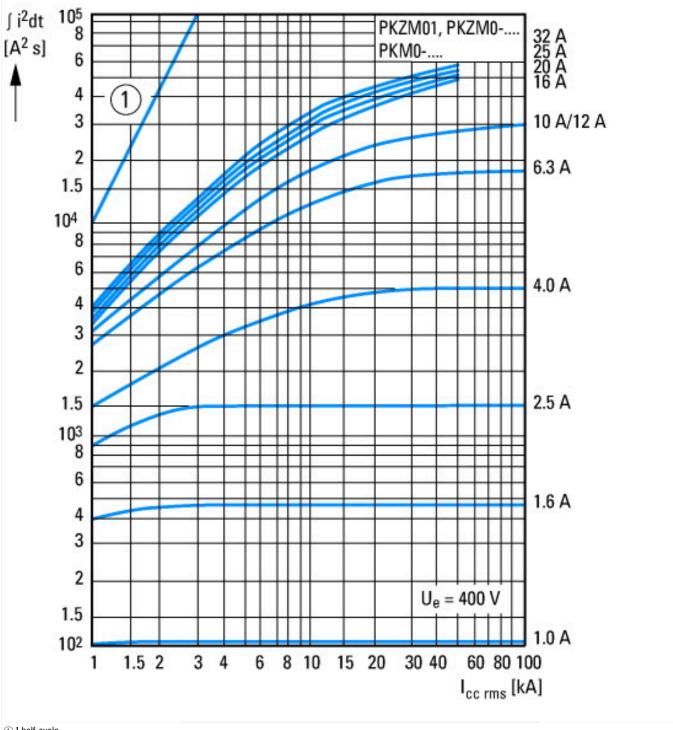
mm

Characteristics









① 1 half-cycle Let-through energy

Dimensions

