DATASHEET - PKE-XTU-32



Trip block, 8 - 32 A, Motor protection, Connection to SmartWire-DT: no, For use with: PKE32 basic device



| Part no. | PKE-XTU-32 |
|-------------------|------------|
| Catalog No. | 121726 |
| Alternate Catalog | XTPEXT032B |
| No. | |
| EL-Nummer | 4355185 |
| (Norway) | |

Delivery program

| kacessoriesinducedlande functioninducedwhoseinduced <th>Delivery program</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | Delivery program | | | | | | | |
|---|--|---------------------------|--------------|----------------|----|--|----------------------------------|-------------|
| Basic henchin Motor protection M | Product range | | | | | Accessories | | |
| Katar Katar <th< td=""><td>Accessories</td><td></td><td></td><td></td><td></td><td>Trip blocks</td><td></td><td></td></th<> | Accessories | | | | | Trip blocks | | |
| Setting range Image: Setting range of overload releases Image: Setting range of overload release Image: Settin | Basic function | | | | | Motor protection Motor protection f | or heavy starting duty | |
| Setting range Image: Setting range of overload releases Image: Setting range of overload release Image: Settin | | | | | | IE3 | / | |
| Overload releases Image: Section range of overload releases, mix. Image: Section range of overload release, mix. < | Notes | | | | | Also suitable for m | otors with efficiency class IE3. | |
| Image: Set of a constraint of | Setting range | | | | | | | |
| Image: Part of the set of t | Overload releases | | | | | | | |
| Image: Part of the set of t | 口 | | | | | | | |
| | Setting range of overloa | ad releases | | l _r | A | 8 - 32 | | |
| and the range of the second s | Overload release, min. | | | l _r | А | 8 | | |
| And d uninterrupted current = ristel operational current Act-s Part operational current Part operation Part operation | Overload release, max. | | | l _r | А | 32 | | |
| Motor rating $AC-3$ PKW7.520V 230 VPPKW5380 V 400 VPPKW15440 VPN151500 VPKW8.51660 V 690 VPKW8.51660 V 690 VPKW91For use withPKW91Connection to SmartWire-DTPKW9Notor output/rated motor current CurrentAC-320 V380 V40 V500 V20 V380 V40 V500 V660 V20 V380 V40 V500 V660 V20 V380 V40 V500 V660 V20 V11111111120 V88 V151488.51488.51519.611.310.18.81519.611.312.18.81519.613.312.18.81526.413.812.18.81519.613.412.18.81519.613.412.18.81519.613.412.18.81519.613.412.623.41624.424.524.52 | Function | | | | | With overload rele | ase | |
| AC3PKVS20 V 20 VPKV5.380 V 400 VPKV5.440 VPKV5.500 VPKV16.500 VPKV16.660 V 690 VPKV3.For uswithPKV0.500 VFor uswithFPKV500 VFPKV0.For uswithFPKV0.500 VFFFF600 V 690 VFFFF600 V 690 VFFFF600 V 690 VFFFF600 V 600 VFFFF600 V 600 VFFFF600 V 70 UpUt/rated motor currentFFFF600 VFFFFF700 V600 VFFFF700 V600 | Rated uninterrupted current = | rated operational current | | $I_u = I_e$ | А | 32 | | |
| 20 V 20 V P NV 7.3 30 V 40 V P NV 10.1 10.1 44 V F P NV 10.1 10.1 50 V F P NV 10.1 10.1 10.1 60 V 60 V F P NV 10.1 10.1 10.1 60 V 60 V F P NV 10.1 10.1 10.1 60 V 60 V F P NV 10.1 10.1 10.1 For use with F P NV 10.1 10.1 10.1 For use with F P NV 10.1 10.1 10.1 For use with F F F 10.1 10.1 10.1 For use with F F F 10.1 10.1 10.1 For use with F F F F 10.1 10.1 For use with F F F F 10.1 10.1 10.1 For use with F F F F 10.1 10.1 10.1 F F F F F F 10.1 10.1 10.1 F | Motor rating | | | | | | | |
| $ \begin{array}{c c c c c } 30 \ V \ 40 \ 40$ | AC-3 | | | | | | | |
| Add V P KV 53 54 \mathbb{N} </td <td>220 V 230 V</td> <td></td> <td></td> <td>Р</td> <td>kW</td> <td>7.5</td> <td></td> <td></td> | 220 V 230 V | | | Р | kW | 7.5 | | |
| NoteNoteNoteNoteNote60 V 69 0 VPkW 3.5 5.5 5.5 5.5 $60 V 69 V$ $90 V$ </td <td>380 V 400 V</td> <td></td> <td></td> <td>Р</td> <td>kW</td> <td>15</td> <td></td> <td></td> | 380 V 400 V | | | Р | kW | 15 | | |
| AC-3 P KW P KE32 basic device Solution to SmartWire-DT PKE32 basic device no Votor output/rated motor current KE32 basic device no AC-3 220 V 380 V 4U V 500 V 660 V 220 V 380 V 4U V 500 V 660 V 230 V 400 V 500 V 660 V 240 V 415 V 500 V 660 V P 1 1 1 P 1 1 1 1 220 V 380 V 400 V 500 V 660 V 230 V 400 V 1 1 1 P 1 1 1 1 1 P 1 1 1 1 1 240 V 415 V - - - P 1 1 1 1 22 87 - - - 34 15 - - - 35 19.6 11.3 10.2 9 - 36 11.3 10.2 9 - - 35 19.6 11.3 13.8 12.1 8.5 <t< td=""><td>440 V</td><td></td><td></td><td>Р</td><td>kW</td><td>15</td><td></td><td></td></t<> | 440 V | | | Р | kW | 15 | | |
| For use with $\begin{tabular}{ c c c c } \hline For use with \begin{tabular}{ c c c } \hline For use with \begin{tabular}{ c c } \hline For with tabul$ | 500 V | | | Р | kW | 18.5 | | |
| Connection to SmartWire-DTMotor output/rated motor currentVotor rating currentRated motor currentAC-3220 V380 V40 V500 V660 V230 V400 V500 V660 V240 V400 V500 V660 V240 V400 V500 V660 V240 V415 VII690 VPointIIIIPointIIIIPointIIIIVVAAAAA2.28.7PointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIPointIIIPointIIIPointIIIPoint | 660 V 690 V | | | Ρ | kW | 30 | | |
| Motor output/rated motor current Rated motor current AC-3 Rated motor current Solv Geo V AC-3 Rated motor current Solv Geo V Geo V AC-3 Rated motor current Solv Geo V Geo V AC-3 Rated motor current Solv Geo V Geo V Qu V Motor current Solv Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I I Geo V Qu V Motor current I I I Geo V Qu V A A A A A A Qu V A A A A A A Qu V A A A | For use with | | | | | PKE32 basic device | e | |
| Motor rating current Rated motor current AC-3 20 V 380 V 440 V 500 V 660 V 20 V 400 V 500 V 690 V 690 V 20 V 400 V F 690 V 690 V 20 V 415 V F 690 V 690 V 20 V 415 V F 690 V 690 V P 1 1 1 1 1 V A | Connection to SmartWire-DT | | | | | no | | |
| 220 V 380 V 440 V 500 V 660 V 230 V 400 V 500 V 690 V 240 V 415 V 690 V 240 V 15 V 1 1 P 1 1 1 1 VW A A A A 2.2 8.7 - - - 3.4 11.5 - - - 5.5 19.6 11.3 10.2 9 - 7.5 26.4 15.2 13.8 12.1 8.8 11.1 - 21.7 19.8 17.4 2.6 15.5 - - 2.6 2.4 17 18.5 - 2.3 26.6 23.4 17 18.5 - - 2.3 20.9 20.9 | Motor output/rated motor curre Motor rating | Rated motor | | | | | | |
| 230 V 400 V 690 V 240 V 415 V 1 P I I I VW A A A A VW A A A A VW A A A A VI I I I I VI A A A A VI A | AC-3 | 220 V | 380 V | | 4 | 140 V | 500 V | 660 V |
| 240 V415 VPIIIIIKWAAAAA2.28.7311.5414.88.55.519.611.310.297.526.415.213.812.18.811.1-21.719.817.412.615.5-29.326.623.41718.523.820.92223.8 | | | | | | | | |
| P I I I I I I AW A A A A A AW A A A A A A 8.7 - - - - B 11.5 - - - - 5.5 19.6 11.3 10.2 9 - 7.5 26.4 15.2 13.8 12.1 8.8 11 - 21.7 19.8 17.4 12.6 15.5 - 20.3 26.6 23.4 17 18.5 - - 20.9 20.9 20.9 22 - - - 23.8 20.9 | | | | | | | | |
| 2.2 8.7 $ 3$ 11.5 $ 4$ 14.8 8.5 $ 5.5$ 19.6 11.3 10.2 9 $ 7.5$ 26.4 15.2 13.8 12.1 8.8 11 $ 21.7$ 19.8 17.4 12.6 15 $ 29.3$ 26.6 23.4 17 18.5 $ 20.9$ 20.9 22 $ 23.8$ | Р | I | I | | | | | |
| 3 11.5 - - - - - 4 14.8 8.5 - - - 5.5 19.6 11.3 10.2 9 - 7.5 26.4 15.2 13.8 12.1 8.8 11 - 21.7 19.8 17.4 12.6 15 - 29.3 26.6 23.4 17 18.5 - - - 20.9 20.9 22 - - - - 23.8 | kW 2.2 | A 87 | | | | | A - | A - |
| 4 14.8 8.5 - - - 5.5 19.6 11.3 10.2 9 - 7.5 26.4 15.2 13.8 12.1 8.8 11 - 21.7 19.8 17.4 12.6 15 - 29.3 26.6 23.4 17 18.5 - - 2.9 20.9 20.9 22 - - - 23.8 | 3 | 11.5 | - | | - | | - | - |
| 7.5 26.4 15.2 13.8 12.1 8.8 11 - 21.7 19.8 17.4 12.6 15 - 29.3 26.6 23.4 17 18.5 - - 28.9 20.9 22 - - 23.8 | 4 | 14.8 | 8.5 | | | | - | - |
| 11 - 21.7 19.8 17.4 12.6 15 - 29.3 26.6 23.4 17 18.5 - - - 28.9 20.9 22 - - - 23.8 | 5.5 7.5 | 19.6 26.4 | 11.3 | | 1 | 10.2 13.8 | 9 12 1 | - 0 0 |
| 15 - 29.3 26.6 23.4 17 18.5 - - - 28.9 20.9 22 - - - 23.8 | 7.5 11 | - | 10.2 21 7 | | 1 | 19.8 | 17.1 | 0.0 12 ƙ |
| 18.5 28.9 20.9 22 23.8 | 15 | - | 29.3 | | 2 | 26.6 | 23.4 | 17 |
| 23.8 | 18.5 | - | | | | | 28.9 | 20.9 |
| su 32 | 22 | - | - | | | | | 23.8 |
| | 30 | - | - | | - | | - | 32 |

Technical data

General

Standards

| 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° |
| Direction of incoming supply | | | as required |
| 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 |
| Main conducting paths | | | |
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | | | 111/3 |
| Rated operational voltage | U _e | V AC | 690 |
| Rated uninterrupted current = rated operational current | $I_u = I_e$ | А | 32 |
| Rated frequency | f | Hz | 40 - 60 |
| Max. operating frequency | | Ops/h | 60 |
| Motor switching capacity | | | |
| AC-3 (up to 690V) | | А | 32 |
| AC-4 cycle operation | | | |
| Minimum current flow times | | ms | 500 (Class 5) 700 (Class 10) 900 (Class 15) 1000 (Class 20) |
| Minimum cut-out periods | | ms | 500 |
| Note | | ms | In AC-4 cycle operation, going below the minimum current flow time can cause overheating of the load (motor). For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods. |
| Trip blocks | | | |
| Temperature compensation | | | |
| to IEC/EN 60947, VDE 0660 | | °C | - 5 40 |
| Operating range | | °C | - 25 55 |
| Setting range of overload releases | | x I _u | 0.25 - 1 |
| short-circuit release | | | Trip block, fixed: 15.5 x I _r delayed approx. 60 ms |
| Short-circuit release tolerance | | | ± 20% |
| Phase-failure sensitivity | | | IEC/EN 60947-4-1, VDE 0660 Part 102 |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | In | А | 32 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 1.3 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 3.9 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |

| 10.2.3.1 Verification of thermal stability of enclosures | Meets the product standard's requirements. |
|--|--|
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | Meets the product standard's requirements. |
| 10.2.5 Lifting | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | Is the panel builder's responsibility. |
| 10.9 Insulation properties | |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 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 leaflet (IL) is observed. |

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Tripping bloc for power circuit-breaker (EC000617)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Releasing block for circuit breakers (ecl@ss10.0.1-27-37-04-10 [AKF008013])

| Overload release current setting | A | 8 - 32 |
|--|---|--------------------|
| Initial value of the undelayed short-circuit release - setting range | A | 124 |
| End value adjustment range undelayed short-circuit release | A | 496 |
| Rated permanent current lu | A | 32 |
| Voltage type for actuating | | Self powered |
| Rated control supply voltage Us at AC 50HZ | V | 0 - 0 |
| Rated control supply voltage Us at AC 60HZ | V | 0 - 0 |
| Rated control supply voltage Us at DC | V | 0 - 0 |
| Number of poles | | 3 |
| Short-circuit release function | | Delayed |
| With ground fault protection function | | No |
| Type of motor protection | | Electronic release |
| | | |

Approvals

| Product Standards | UL 508; CSA-C22.2 No. 14-10; IEC60947-4-1; 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 |

