

Trip block, 0.3 - 1.2 A, Motor protection, Connection to SmartWire-DT: yes,
For use with: PKE12 basic device





Part no. PKE-XTUA-1,2
Catalog No. 121727
Alternate Catalog XTPEXTA1P2B
No.
EL-Nummer 4355178
(Norway)

Delivery program

| | | | |
|----------------|--|--|--|
| Product range | | | Accessories |
| Accessories | | | Trip blocks |
| Basic function | | | Motor protection Motor protection for heavy starting duty |
| Notes | | | Also suitable for motors with efficiency class IE3. |

Setting range

| | | | |
|---|---------------------------------|---|-----------------------|
| Overload releases | | | |
|  | | | |
| Setting range of overload releases | I _r | A | 0.3 - 1.2 |
|  | | | |
| Overload release, min. | I _r | A | 0.3 |
| Overload release, max. | I _r | A | 1.2 |
| Function | | | With overload release |
| Rated uninterrupted current = rated operational current | I _u = I _e | A | 1.2 |

Motor rating

| | | | |
|----------------------------|---|----|---|
| AC-3 | | | |
| 220 V 230 V | P | kW | 0.18 |
| 380 V 400 V | P | kW | 0.37 |
| 440 V | P | kW | 0.37 |
| 500 V | P | kW | 0.37 |
| 660 V 690 V | P | kW | 0.75 |
| For use with | | | PKE12 basic device |
| Connection to SmartWire-DT | | | yes in conjunction with PKE-SWD-SP SmartWire DT PKE module in conjunction with PKE-SWD-32 SmartWire DT PKE module |

| | | | | | | |
|----------------------------------|------|---------------------|-------|-------|-------|-------|
| Motor output/rated motor current | | Rated motor current | | | | |
| Motor rating | | | | | | |
| AC-3 | | 220 V | 380 V | 440 V | 500 V | 660 V |
| | | 230 V | 400 V | | | 690 V |
| | | 240 V | 415 V | | | |
| P | I | I | I | I | I | I |
| kW | A | A | A | A | A | A |
| 0.06 | 0.37 | - | - | - | - | - |
| 0.09 | 0.54 | 0.31 | - | - | - | - |
| 0.12 | 0.72 | 0.41 | 0.37 | 0.33 | - | - |
| 0.18 | 1.04 | 0.6 | 0.54 | 0.48 | 0.35 | - |
| 0.25 | - | 0.8 | 0.76 | 0.7 | 0.5 | - |
| 0.37 | - | 1.1 | 1.02 | 0.9 | 0.7 | - |
| 0.55 | - | - | - | - | 0.9 | - |
| 0.75 | - | - | - | - | 1.1 | - |

Technical data

| | | |
|---------------------|----|--|
| 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 |
| 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 | | | III/3 |
| Rated operational voltage | U _e | V AC | 690 |
| Rated uninterrupted current = rated operational current | I _u = I _e | A | 1.2 |
| Rated frequency | f | Hz | 50/60 |
| Max. operating frequency | | Ops/h | 60 |
| Motor switching capacity | | | |
| AC-3 (up to 690V) | | A | 1.2 |
| 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 | I _n | A | 1.2 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.1 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0.3 |
| 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 8.0

| | | | |
|---|--|---|--------------------|
| 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 | 0.3 - 1.2 |
| Initial value of the undelayed short-circuit release - setting range | | A | 4.65 |
| End value adjustment range undelayed short-circuit release | | A | 18.6 |
| Rated permanent current I _u | | A | 1.2 |
| Voltage type for actuating | | | Self powered |
| Rated control supply voltage U _s at AC 50HZ | | V | 0 - 0 |
| Rated control supply voltage U _s at AC 60HZ | | V | 0 - 0 |
| Rated control supply voltage U _s 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 |