






Trip block, 15-36A, system protection

Part no. PKE-XTUCP-36
Article no. 153164
Catalog No. XTPEXT036BD

Delivery programme

| | | | |
|---|-------------|---|---|
| Product range | | | Accessories |
| Accessories | | | Trip blocks |
| Basic function | | | System protection Line and cable protection |
| Setting range | | | |
| Overload releases | | | |
|  | | | |
| Setting range of overload releases | I_r | A | 15 - 36 |
|  | | | |
| Overload release, min. | I_r | A | 15 |
| Overload release, max. | I_r | A | 36 |
| Short-circuit releases | I_{rm} | A | 75 - 288 |
|  | | | |
| Function | | | with overcurrent protection and short-circuit protective device |
| Rated uninterrupted current = rated operational current | $I_u = I_e$ | A | 36 |
| For use with | | | PKE32 basic device |
| Connection to SmartWire-DT | | | No |

Technical data

| | | | |
|---|---|----|--|
| General | | | |
| Standards | | | IEC/EN 60947, VDE 0660 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Storage | θ | °C | -40 - +80 |
| Open | | °C | -20 - +55 |
| Enclosed | | °C | -20 - +40 |
| Direction of incoming supply | | | as required |
| Degree of protection | | | |
| Device | | | IP20 |
| Terminations | | | IP00 |
| Busbar tag shroud to 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 | 36 |
| Rated frequency | f | Hz | 40 - 60 |
| Maximum operating frequency | | Ops./h | |
| Max. operating frequency | | Ops/h | 60 |

Trip blocks

| | | | |
|---|--|----|---|
| Temperature compensation | | °C | -5 - +40 (to IEC/EN 60947, VDE 0660) -25 - +55 (operating range) |
| Temperature compensation residual error for $T > 40$ °C | | | ±55 (Arbeitsbereich) |
| Setting range of overload releases | | | $0.42 - 1 \times I_u$ (with PKE-XTU(A)CP-36) |

| | | | |
|---------------------------------|--|--|---|
| short-circuit release | | | Trip block, adjustable: 5 - 8 x I _r delayed approx. 60 ms |
| Short-circuit release tolerance | | | ± 20% |
| Phase-failure sensitivity | | | no (with PKE-XTU(A)CP-...) |

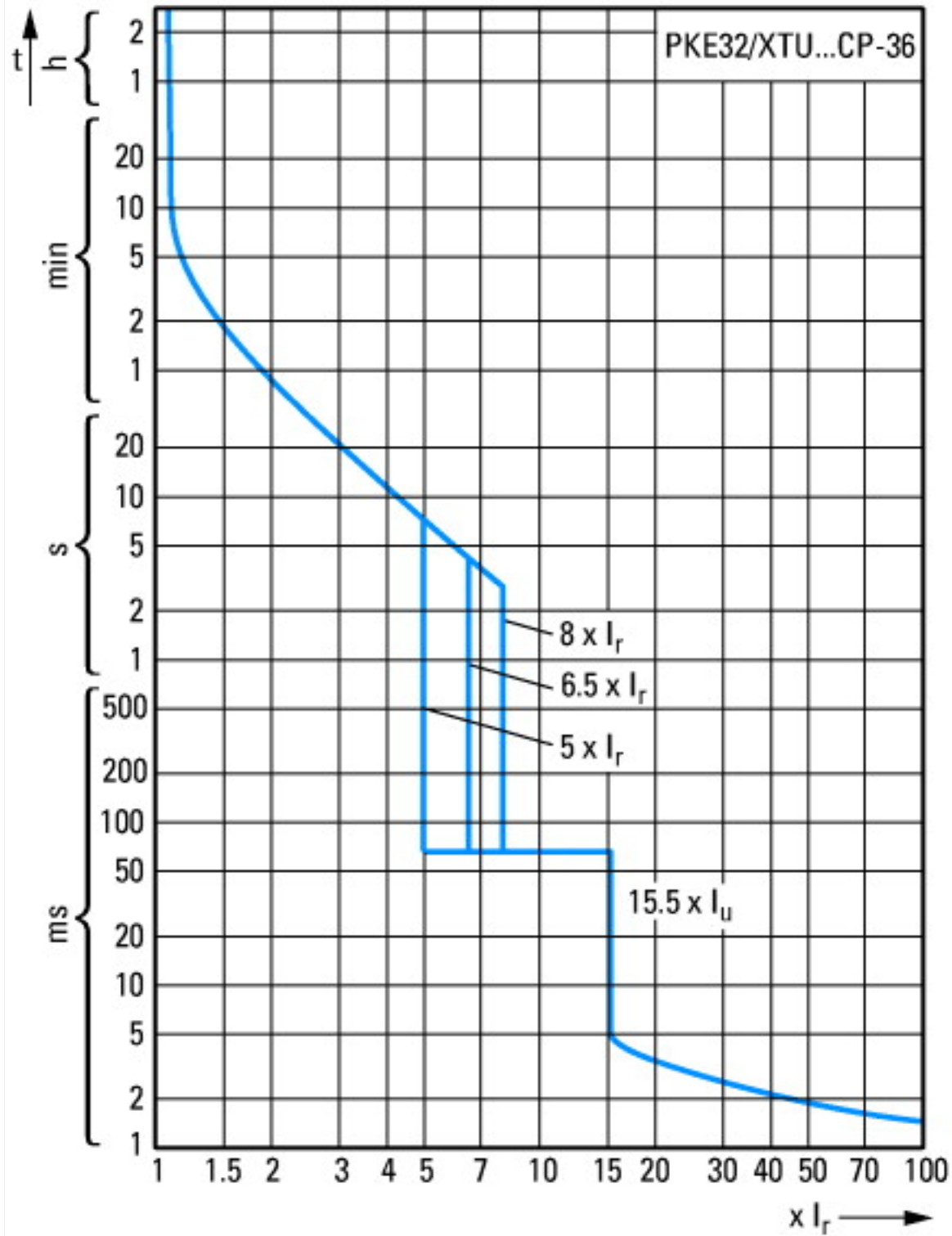
Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | I _n | A | 36 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 1.7 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 4.9 |
| 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 6.0

| 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@ss8.1-27-37-04-10 [AKF008010]) | | | |
| Overload release current setting | | A | 15 - 36 |
| Initial value of the undelayed short-circuit release - setting range | | A | 75 |
| End value adjustment range undelayed short-circuit release | | A | 288 |
| Rated permanent current I _u | | A | 36 |
| Number of poles | | | 3 |
| Short-circuit release function | | | Delayed |

Characteristics



Tripping characteristics

Additional product information (links)

MN03402004Z PKE12, PKE32 and PKE65 motor-protective circuit-breakers; overload monitoring of Ex e motors

MN03402004Z PKE12, PKE32 and PKE65 motor-protective circuit-breakers; overload monitoring of Ex e motors - Deutsch / English

ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402004Z_DE_EN.pdf

Motor starters and "Special Purpose Ratings" for the North American market

http://www.moeller.net/binary/ver_techpapers/ver953en.pdf

Busbar Component Adapters for modern Industrial control panels

http://www.moeller.net/binary/ver_techpapers/ver960en.pdf