

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

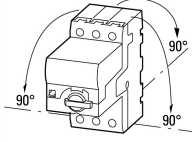
**Part no. PKE-XTU-32**  
**Catalog No. 121726**  
**Alternate Catalog XTPEXT032B**  
**No.**  
**EL-Nummer 4355185**  
**(Norway)**

**Delivery program**

|   |                     |       |       |  |
|---|---------------------|-------|-------|--|
| Product range   |                     |       |       | Accessories  |
| Accessories   |                     |       |       | Trip blocks  |
| Basic function  |                     |       |       | Motor protection<br>Motor protection for heavy starting duty |
|   |                     |       |       |  |
| Notes   |                     |       |       | Also suitable for motors with efficiency class IE3.          |
| <b>Setting range</b>                                    |                     |       |       |  |
| Overload releases                                       |                     |       |       |  |
|   |                     |       |       |  |
| Setting range of overload releases                      | $I_r$               | A     |       | 8 - 32   |
|   |                     |       |       |  |
| Overload release, min.                                  | $I_r$               | A     |       | 8  |
| Overload release, max.                                  | $I_r$               | A     |       | 32   |
| Function  |                     |       |       | With overload release  |
| Rated uninterrupted current = rated operational current | $I_u = I_e$         | A     |       | 32   |
| <b>Motor rating</b>                                     |                     |       |       |  |
| AC-3  |                     |       |       |  |
| 220 V 230 V   | P                   | kW    |       | 7.5  |
| 380 V 400 V   | P                   | kW    |       | 15   |
| 440 V   | P                   | kW    |       | 15   |
| 500 V   | P                   | kW    |       | 18.5   |
| 660 V 690 V   | P                   | kW    |       | 30   |
| For use with  |                     |       |       | PKE32 basic device   |
| Connection to SmartWire-DT                              |                     |       |       | no   |
| Motor output/rated motor current                        |                     |       |       |  |
| Motor rating  | Rated motor current |       |       |  |
|   | AC-3                |       |       |  |
|   | 220 V               | 380 V | 440 V | 500 V  |
|   | 230 V               | 400 V |       | 690 V  |
|   | 240 V               | 415 V |       |  |
| P   | I                   | I     | I     | I  |
| kW  | A                   | A     | A     | A  |
| 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   |
| 11  | -                   | 21.7  | 19.8  | 17.4   |
| 15  | -                   | 29.3  | 26.6  | 23.4   |
| 18.5  | -                   | -     | -     | 28.9   |
| 22  | -                   | -     | -     | -  |
| 30  | -                   | -     | -     | -  |

**Technical data**

|           |                                |
|-----------|--------------------------------|
| Standards | IEC/EN 60947, VDE 0660,UL, CSA |
|-----------|--------------------------------|

|   |    |  |  |
|---|----|--|--|
| Climatic proofing   |    |  | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30     |
| Ambient temperature   |    |  |  |
| Storage   | °C |  | - 40 - 80  |
| Open  | °C |  | -25 - +55  |
| Enclosed  | °C |  | - 25 - 40  |
| Mounting position   |    |  |  |
| 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     | 32   |
| Rated frequency   | f           | Hz    | 40 - 60  |
| Max. operating frequency                                |             | Ops/h | 60   |
| Motor switching capacity                                |             |       |  |
| AC-3 (up to 690V)                                       |             | A     | 32   |
| AC-4 cycle operation                                    |             |       |  |
| Minimum current flow times                              |             | ms    | 500 (Class 5)<br>700 (Class 10)<br>900 (Class 15)<br>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).<br>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: $15.5 \times I_r$<br>delayed approx. 60 ms |
| Short-circuit release tolerance    |         |  | $\pm 20\%$  |
| 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  | 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)

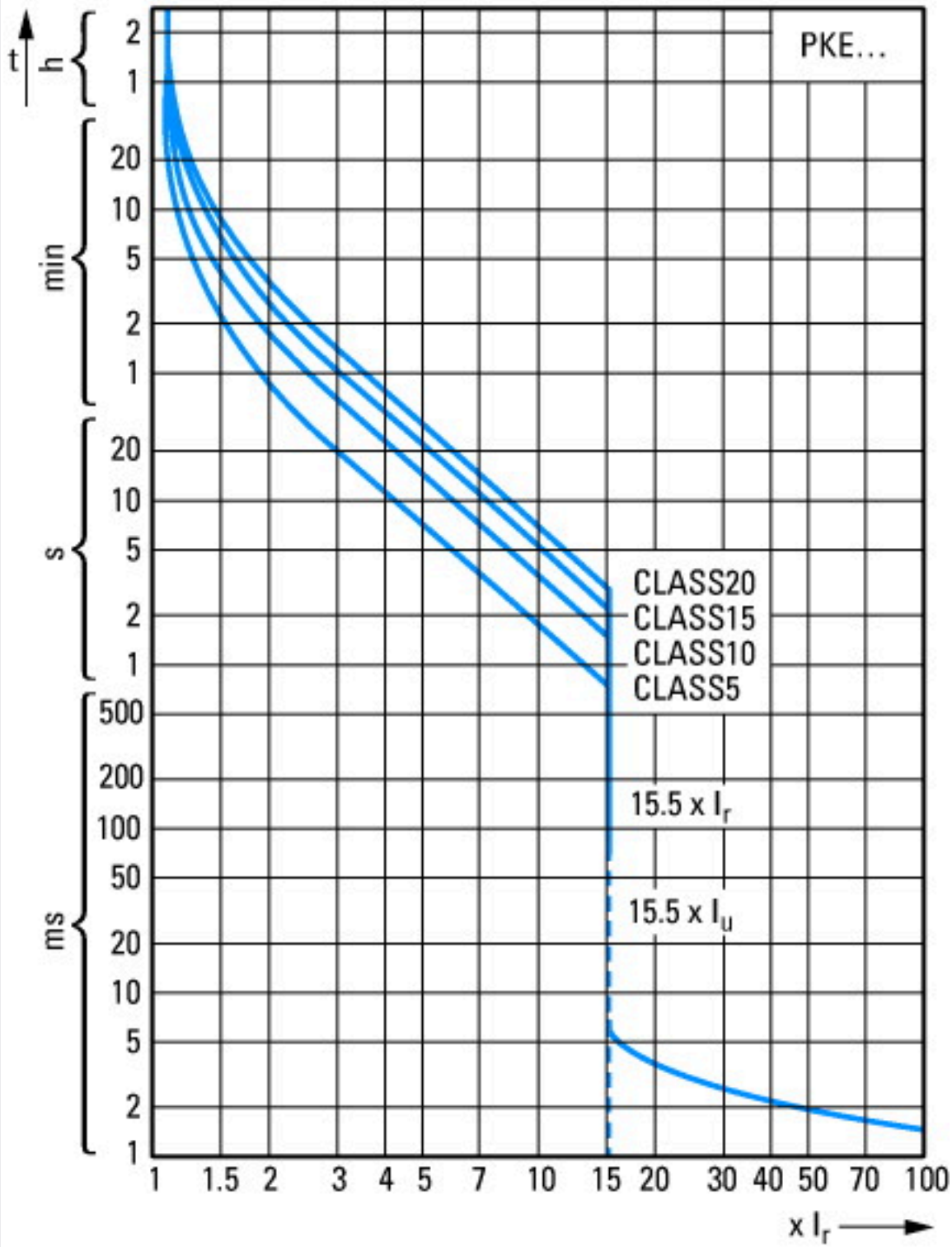
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Releasing block for circuit breakers (ecl@ss10.0.1-27-37-04-10 [AKF008013])

|  |   |                    |
|--|---|--------------------|
| 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 I <sub>u</sub>                               | A | 32                 |
| Voltage type for actuating   |   | Self powered       |
| Rated control supply voltage U <sub>s</sub> at AC 50HZ               | V | 0 - 0              |
| Rated control supply voltage U <sub>s</sub> at AC 60HZ               | V | 0 - 0              |
| Rated control supply voltage U <sub>s</sub> 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  |

## Characteristics



Tripping characteristics