



## Trip block Advanced 1-4A

**Part no.**  
**Article no.**

**PKE-XTUA-4**  
**121728**



Powering Business Worldwide™

### Delivery programme

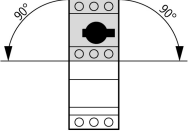
|                                    |                                 |                    |       |                               |
|------------------------------------|---------------------------------|--------------------|-------|-------------------------------|
| Accessories                        |                                 |                    |       | Trip blocks                   |
| Setting range of overload releases | $I_r$                           | A                  |       | 1 - 4                         |
| Expansions                         |                                 |                    |       | With communication capability |
| Function                           |                                 |                    |       | With overload release         |
| Rated uninterrupted current        | $I_u$                           | A                  |       | 4                             |
| Motor rating                       |                                 |                    |       |                               |
| AC-3                               |                                 |                    |       |                               |
| 220 V 230 V                        | P                               | kW                 |       | 0.75                          |
| 380 V 400 V                        | P                               | kW                 |       | 1.5                           |
| 440 V                              | P                               | kW                 |       | 1.5                           |
| 500 V                              | P                               | kW                 |       | 2.2                           |
| 660 V 690 V                        | P                               | kW                 |       | 3                             |
| For use with                       |                                 |                    |       | PKE12 basic device            |
| Motor output/rated motor current   |                                 |                    |       |                               |
| <b>Motor power</b>                 | <b>AC-3 rated motor current</b> |                    |       |                               |
|                                    | 220, 230<br>240 V               | 380, 400,<br>415 V | 440 V | 500 V                         |
|                                    | 1.04                            |                    |       | 660, 690 V                    |
| 0.18                               | 1.4                             |                    |       |                               |
| 0.25                               | 2                               | 1.1                | 1.02  |                               |
| 0.37                               | 2.7                             | 1.5                | 1.39  |                               |
| 0.55                               | 3.2                             | 1.9                | 1.68  | 1.2                           |
| 0.75                               |                                 | 2.6                | 2.41  | 1.5                           |
| 1.1                                |                                 | 3.6                | 3.28  | 2.1                           |
| 1.5                                |                                 |                    |       | 2.9                           |
| 2.2                                |                                 |                    |       | 4                             |
| 3                                  |                                 |                    |       | 3.8                           |

### Approvals

Product Standards  
UL File No.  
UL CCN  
CSA File No.  
CSA Class No.  
NA Certification  
Specially designed for NA

UL 508; CSA-C22.2 No. 14-10; IEC60947-4-1; CE marking  
E36332  
NLRV  
12528  
3211-05  
UL listed, CSA certified  
No

### General

|                                                                           |  |    |                                                                                      |
|---------------------------------------------------------------------------|--|----|--------------------------------------------------------------------------------------|
| Standards                                                                 |  |    | IEC/EN 60947, VDE 0660                                                               |
| Climatic proofing                                                         |  |    | Damp heat, constant to IEC 60068-2-78<br>Damp heat, cyclic to IEC 60068-2-30         |
| Ambient temperature                                                       |  | °C |                                                                                      |
| Storage                                                                   |  | °C | -40 - +80                                                                            |
| Open                                                                      |  | °C | -20 - +55                                                                            |
| Enclosed                                                                  |  | °C | -20 - +40                                                                            |
| Mounting position                                                         |  |    |  |
| Direction of incoming supply                                              |  |    | as required                                                                          |
| Degree of protection                                                      |  |    |                                                                                      |
| Device                                                                    |  |    | IP20                                                                                 |
| Terminations                                                              |  |    | IP00                                                                                 |
| Protection against direct contact                                         |  |    | Finger and back-of-hand proof                                                        |
| Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27 |  | g  | 25                                                                                   |
| Altitude                                                                  |  | m  | 2000                                                                                 |

|                                                 |  |                 |                            |
|-------------------------------------------------|--|-----------------|----------------------------|
| Terminal capacity screw terminals               |  | mm <sup>2</sup> |                            |
| Solid                                           |  | mm <sup>2</sup> | 1 x (1 - 6)<br>2 x (1 - 6) |
| Flexible with ferrule to DIN 46228              |  | mm <sup>2</sup> | 1 x (1 - 6)<br>2 x (1 - 6) |
| Solid or stranded                               |  | AWG             | 18 - 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 <sub>imp</sub>                | V<br>AC              | 6000    |
| Overvoltage category/pollution degree                   |                                 |                      | III/3   |
| Rated operational voltage                               | U <sub>e</sub>                  | V<br>AC              | 690     |
| Rated uninterrupted current = rated operational current | I <sub>u</sub> = I <sub>e</sub> | A                    | 4       |
| Rated frequency                                         | f                               | Hz                   | 40 - 60 |
| Lifespan, mechanical                                    | Operations                      | x<br>10 <sup>6</sup> | 0.05    |
| Lifespan, electrical (AC-3 at 400 V)                    | Operations                      | x<br>10 <sup>6</sup> | 0.05    |
| Maximum operating frequency                             |                                 | Ops./<br>h           |         |
| Max. operating frequency                                |                                 | Ops./<br>h           | 60      |
| Motor switching capacity                                |                                 | kA <sub>rms</sub>    |         |
| AC-3 (up to 690 V)                                      |                                 | A                    | 4       |

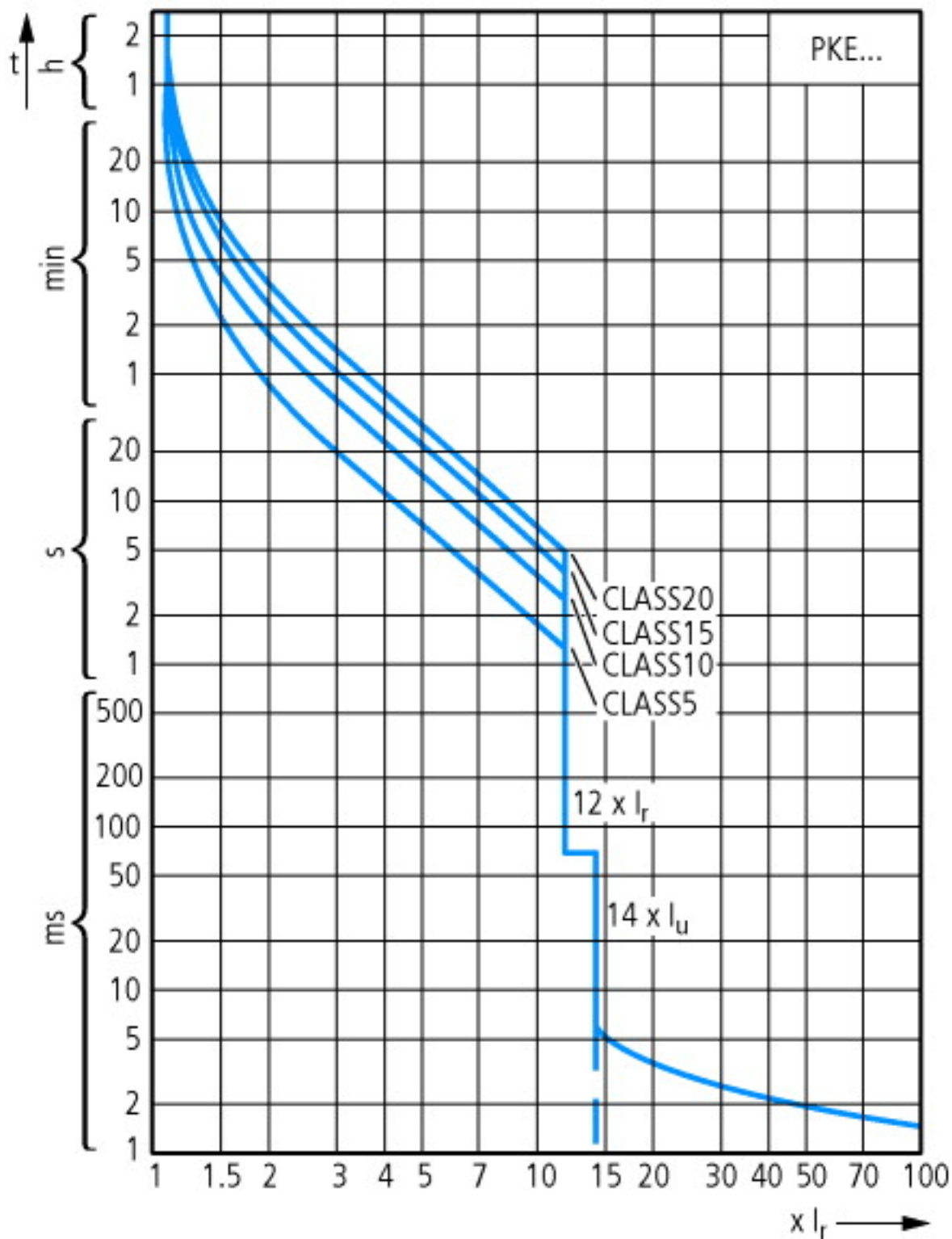
### Trip blocks

|                                                       |  |    |                                                                   |
|-------------------------------------------------------|--|----|-------------------------------------------------------------------|
| Temperature compensation                              |  | °C | -5 – 40 (to IEC/EN 60947, VDE 0660)<br>-25 – 55 (operating range) |
| Temperature compensation residual error for T > 40 °C |  |    | $\pm$ 0.1%/K                                                      |
| Setting range of overload releases                    |  |    | 0.25 - 1 x I <sub>u</sub>                                         |
| Fixed short-circuit release                           |  |    | Trip block 12 x I <sub>r</sub><br>delayed approx. 60 ms           |
| Short-circuit release tolerance                       |  |    | ± 20%                                                             |
| Phase-failure sensitivity                             |  |    | yes                                                               |

### Technical data ETIM 4.0

|                                                                  |  |   |         |
|------------------------------------------------------------------|--|---|---------|
| Final value of non-delayed short-circuit release setting range   |  | A | 48      |
| Initial value of non-delayed short-circuit release setting range |  | A | 1       |
| Setting range of overload releases                               |  | A | 4       |
| Short-circuit release function                                   |  |   | Delayed |
| Number of poles                                                  |  |   | 3       |
| Rated uninterrupted current I <sub>u</sub>                       |  | A | 4       |

### Characteristics



Tripping characteristic curves, wide-range circuit breaker PKE

### Additional product information (links)

#### IL03402019Z (AWA1210-2490) PKE motor-protective circuit-breaker with wide-range overload protection

IL03402019Z (AWA1210-2490) PKE motor-protective circuit-breaker with wide-range overload protection

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03402019Z2011\\_09.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402019Z2011_09.pdf)

#### IL03402023Z (AWA1210-2705) Trip block for solid-state motor-protective circuit-breaker

IL03402023Z (AWA1210-2705) Trip block for solid-state motor-protective circuit-breaker

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03402023Z2011\\_08.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402023Z2011_08.pdf)

#### MN03402004Z-DE/EN Motor-protective circuit-breaker PKE12 and PKE32; Overload monitoring of Ex e motors

MN03402004Z-DE/EN Motor-protective circuit-breaker PKE12 and PKE32; Overload monitoring of Ex e motors - Deutsch / English

[ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN03402004Z\\_DE\\_EN.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402004Z_DE_EN.pdf)

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

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