



## Trip-Block ZM-PKZ2

Part no.  
Article no.

ZM-16-PKZ2  
043217



Powering Business Worldwide™

### Delivery programme

|                                                                                                                                                                                                                     |          |    |                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------------------------------------------------------------|
| Product range                                                                                                                                                                                                       |          |    | Accessories: PKZ2 System - PRODUCT DISCONTINUATION IN 2012 |
| Accessories                                                                                                                                                                                                         |          |    | Trip blocks                                                |
|                                                                                                                                                                                                                     |          |    | with overload release                                      |
| Max. motor rating                                                                                                                                                                                                   |          |    |                                                            |
| AC-3                                                                                                                                                                                                                |          |    |                                                            |
| 220 V<br>230 V<br>240 V                                                                                                                                                                                             |          |    |                                                            |
| 220 V 230 V                                                                                                                                                                                                         | P        | kW | 4                                                          |
| 380 V<br>400 V<br>415 V                                                                                                                                                                                             |          |    |                                                            |
| 380 V 400 V                                                                                                                                                                                                         | P        | kW | 7.5                                                        |
| 440 V                                                                                                                                                                                                               | P        | kW | 9                                                          |
| 500 V                                                                                                                                                                                                               | P        | kW | 9                                                          |
| 660 V<br>690 V                                                                                                                                                                                                      |          |    |                                                            |
| 660 V 690 V                                                                                                                                                                                                         | P        | kW | 12.5                                                       |
| Rated uninterrupted current                                                                                                                                                                                         | $I_u$    | A  | 16                                                         |
| Setting range                                                                                                                                                                                                       |          |    |                                                            |
| Overload releases                                                                                                                                                                                                   | $I_r$    | A  | 10 - 16                                                    |
| Short-circuit releases                                                                                                                                                                                              | $I_{rm}$ | A  | 130 - 220                                                  |
| <b>Notes</b>                                                                                                                                                                                                        |          |    |                                                            |
| Single-phasing sensitivity to IEC/EN 60947-4-1                                                                                                                                                                      |          |    |                                                            |
| Suitable for the protection of EEx e motors                                                                                                                                                                         |          |    |                                                            |
| PTB Certificate No.: 3.53-388.299                                                                                                                                                                                   |          |    |                                                            |
| Extension to ATEX applied for                                                                                                                                                                                       |          |    |                                                            |
| Overload releases, adjustable                                                                                                                                                                                       |          |    |                                                            |
| $I_r = 0.6 - 1.0 \times I_u$                                                                                                                                                                                        |          |    |                                                            |
| Adjustable short-circuit release                                                                                                                                                                                    |          |    |                                                            |
| $I_{rm} = 8.5 - 14 \times I_u$                                                                                                                                                                                      |          |    |                                                            |
| Factory set to $12 \times I_u$                                                                                                                                                                                      |          |    |                                                            |
| <b>Notes</b> Service factor (SF)                                                                                                                                                                                    |          |    |                                                            |
| Set value $I_r$ on the current scale, depending on the load factor                                                                                                                                                  |          |    |                                                            |
| Calculate motor power in this range according to the rated operational current. Stated values to NEC Table 430 - 150.                                                                                               |          |    |                                                            |
| Approved rating data                                                                                                                                                                                                |          |    |                                                            |
| Devices for world markets IEC  UL/CSA                                                                                            |          |    |                                                            |
| <b>Notes</b>                                                                                                                                                                                                        |          |    |                                                            |
| When using the M-...-PKZ2 for short-circuit protection of motors with heavy-duty starting, the rated operating current e must be overdimensioned by the following factors in the course of the project engineering: |          |    |                                                            |
| CLASS                                                                                                                                                                                                               | Factor   |    |                                                            |
| 5                                                                                                                                                                                                                   | 1.0      |    |                                                            |
| 10                                                                                                                                                                                                                  | 1.0      |    |                                                            |
| 15                                                                                                                                                                                                                  | 1.22     |    |                                                            |
| 20                                                                                                                                                                                                                  | 1.41     |    |                                                            |
| 25                                                                                                                                                                                                                  | 1.58     |    |                                                            |
| 30                                                                                                                                                                                                                  | 1.73     |    |                                                            |
| 35                                                                                                                                                                                                                  | 1.89     |    |                                                            |
| 40                                                                                                                                                                                                                  | 2.0      |    |                                                            |

### Approvals

Product Standards  
UL File No.  
UL CCN  
CSA File No.  
CSA Class No.

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

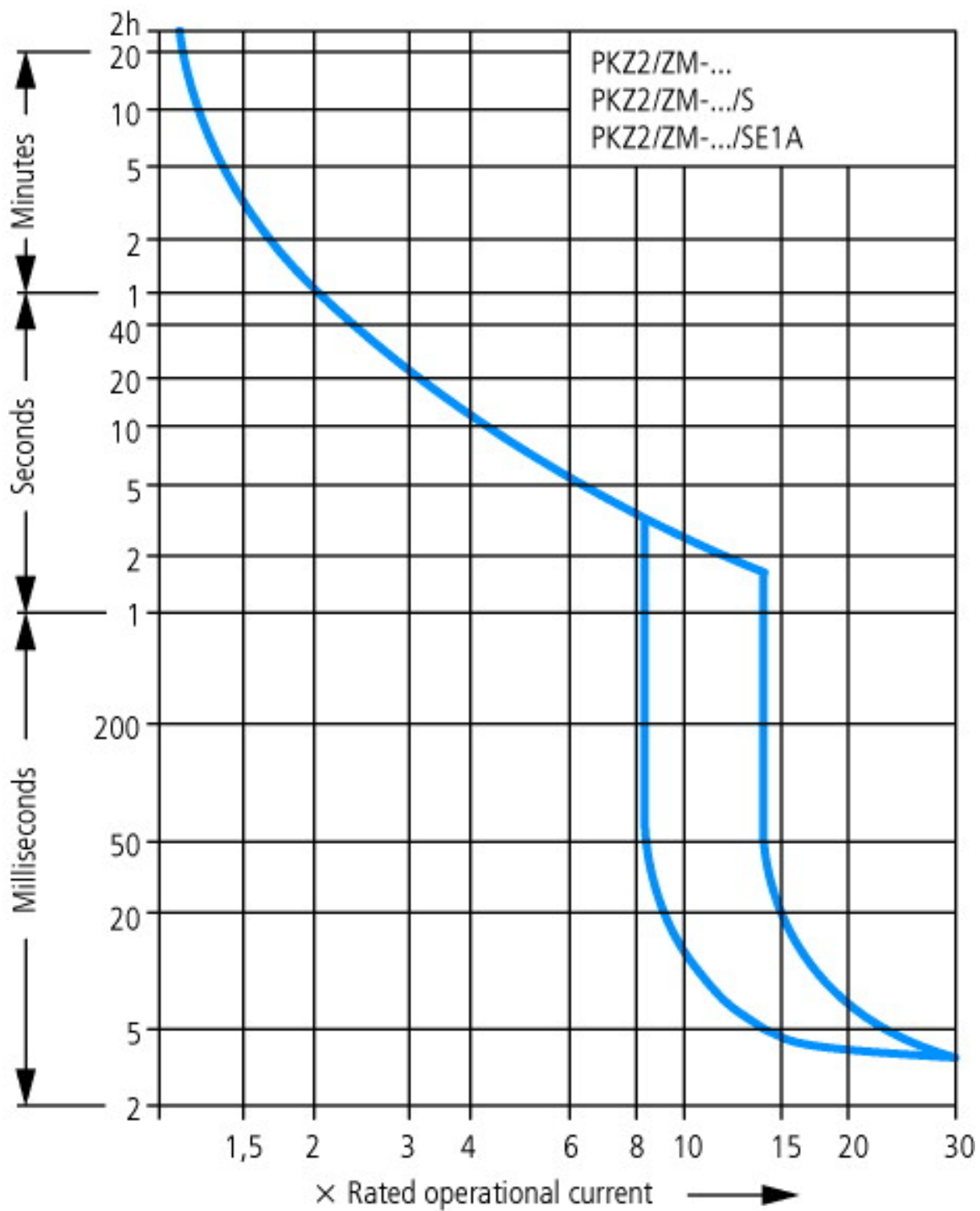
## ZM-...PKZ2, ZMR-...PKZ2 trip blocks for motor protection

|                                    |  |              |                                     |
|------------------------------------|--|--------------|-------------------------------------|
| Setting range of overload releases |  | $\times I_U$ | 0.6 - 1                             |
| Short-circuit releases             |  | $\times I_U$ | 8.5 - 14                            |
| Phase-failure sensitivity          |  |              | IEC/EN 60947-1-1, VDE 0660 Part 102 |

## Technical data ETIM 4.0

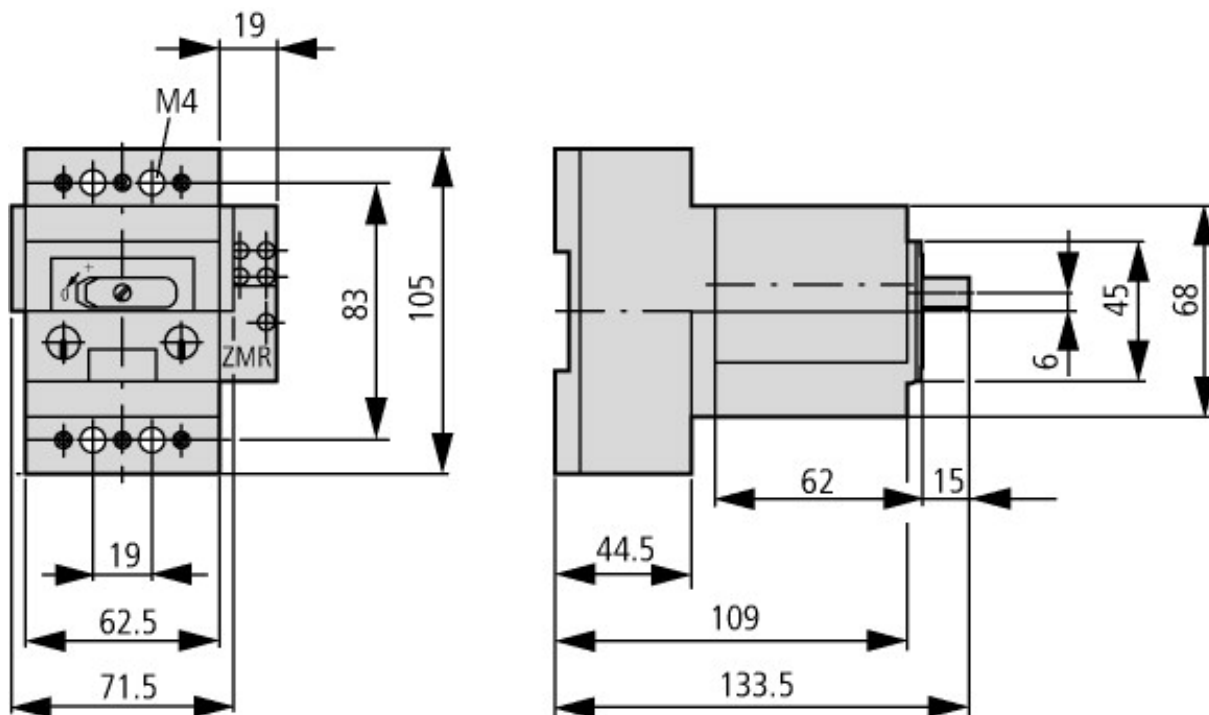
|                                                                  |  |   |             |
|------------------------------------------------------------------|--|---|-------------|
| Final value of non-delayed short-circuit release setting range   |  | A | 220         |
| Initial value of non-delayed short-circuit release setting range |  | A | 130         |
| Setting range of overload releases                               |  | A | 16          |
| Short-circuit release function                                   |  |   | Non-delayed |
| Number of poles                                                  |  |   | 3           |
| Rated uninterrupted current $I_u$                                |  | A | 16          |

## Characteristics



Motor-protective circuit-breaker (high-capacity) compact starter tripping characteristic

## Dimensions



PKZ2/(Z)M-...

### Additional product information (links)

#### AWA1280-0876 Motor-protective circuit-breaker

AWA1280-0876 Motor-protective circuit-breaker

#### AWB1210-1485 PKZ2 motor-protective circuit-breakers, overload monitoring of EEx e motors

AWB1210-1485 PKZ2 motor-protective circuit-breakers, overload monitoring of EEx e motors

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

[http://www.moeller.net/binary/ver\\_techpapers/ver953en.pdf](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](http://www.moeller.net/binary/ver_techpapers/ver960en.pdf)