



## Polyphase short-circuiting device for LV overhead line with bare conductors - applied from the ground

SR EN 61230



Code: Msp - CAA - U - nxS<sub>r</sub>/I<sub>r</sub> - S<sub>p</sub>/I<sub>p</sub> - O/p

**Intended purpose:** earthing and short-circuiting of bare conductors of LV overhead lines.

**Application:** from the ground, with a telescopic insulating stick of 9 m extended length, PTU-AS---c type, in the following sequence of operations:

1. By means of the earthing subassembly, one conductor of the line is earthed
2. By means of the short-circuiting subassemblies, the phase and null conductors are short-circuited, starting with the conducted earthed in the previous operation.

**Application:** by the hanging of the automatic self-locking clamp (CAA) on the conductor, followed by the pulling down the clamp.

**Components** (see also the first table below):

- The short-circuiting subassembly for 3 conductors is provided with:
- Automatic self-locking clamp (CAA) – 3 pieces
- Short-circuiting cable – 2 pieces
- The short-circuiting subassembly for 2 conductors is provided with:
- Automatic self-locking clamp (CAA) – 2 pieces
- Short-circuiting cable – 1 piece

The earthing subassembly is provided with:

- Automatic self-locking clamp (CAA) – 1 piece
- Earthing cable - 1 piece
- Manual earthing clamp - 1 piece
- Clamp applicator (PAS/C) - 1 piece
- Removal fork (CDAU/C) - 1 piece
- Mobile earthing electrode (peg) - 1 piece

**Packing:** waterproof bag.

Configurations available depending on the number of overhead line conductors

| Number of OHL conductors | Subassembly for 3 LV OHL conductors | Subassembly for 2 LV OHL conductors | Subassembly for earthing |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 4                        | 1                                   | 1                                   | 1                        |
| 5                        | 2                                   | 0                                   | 1                        |
| 6                        | 2                                   | 1                                   | 1                        |
| 7                        | 3                                   | 0                                   | 1                        |

### Technical characteristics

|   |           |       |     |
|---|-----------|-------|-----|
| Rated operating voltage U <sub>n</sub> (kV)   | max. 1    |       |     |
| Phase S <sub>r</sub> and earthing S <sub>p</sub> cable cross-section (mm <sup>2</sup> ) | 16        | 25    | 35  |
| Nominal short-circuit current for t = 1 s I <sub>sc</sub> (kA)                          | 4         | 6,25  | 8   |
| Shock (peak) nominal current for t = 0,02 s I <sub>sd</sub> (kA)                        | 10        | 15,63 | 20  |
| Test short-circuit current for t = 1 s (kA)   | 4,6       | 7,2   | 9,2 |
| Shock (peak) nominal current for t = 0,02 s (kA)  | 11,5      | 17,97 | 23  |
| Power factor (according to SR EN 61230)   | 2,5       |       |     |
| Phase cable I <sub>r</sub> length I <sub>r</sub> (m)                                    | max. 4    |       |     |
| Earthing cable I <sub>p</sub> length (m)  | max. 17,5 |       |     |
| Conductor diameter where the phase clamp can be applied (mm)                            | 5 ÷ 32    |       |     |



SHORT-CIRCUITING SUBASSEMBLY  
FOR 3 CONDUCTORS



SHORT-CIRCUITING SUBASSEMBLY  
FOR 2 CONDUCTORS



EARTHING SUBASSEMBLY



CLAMP APPLICATOR (PAS/C)



REMOVAL FORK (CDAU/C)