



**Three-phased short-circuiting device for MV overhead lines-application from the pole - clamp CAA**

**SR EN 61230**



**Code: Msp - CAA - AST - 3xS<sub>i</sub>/I<sub>r</sub> - S<sub>p</sub>/I<sub>p</sub> - O/p (clamp dispenser)  
Msp - CAA - AST - 3xS<sub>i</sub>/I<sub>r</sub> - S<sub>p</sub>/I<sub>p</sub> - O/p - CR (intermediary piece - CEZ model)**

The three-phased short-circuiting device equipped with automatic self-locking phase clamps (CAA) - either the model with clamp dispenser, or the model with the intermediary piece (CEZ model) - is used for applying from the pole on the MV overhead lines conductors.

The automatic self-locking phase clamp (CAA) is made of moulded aluminium alloy and it is provided with a special piece to attach the clamps dispenser and a steel ring for dismantling.

In both systems, the phase clamp will be connected through an adaptor (clamp dispenser / intermediary piece) at the insulating stick PMU-20-1-B/baS provided with bayonet coupling system.

The application and fixing of the phase clamp on the MV overhead line conductor is made by pulling down the phase clamp.

Once the phase clamp is mounted on the conductor, it is detached by:

- pulling down and detachment from the clamp dispenser from the top of the insulating stick
- unscrewing the clamp from the intermediary piece (E), mounted in the top of the insulating stick.

In both systems, the dismantling of the clamps from the conductor is made with the aid of the dismantling hook (CDA/E), placed in the coupling system of the insulating stick by hang the ring and pulling down the clamp.

The three-phased short-circuiting device contains:

- automatic self-locking phase clamp (CAA) - 3 pieces
- short-circuiting cables - 3 pieces
- manual earthing clamp - 1 piece
- earthing cable - 1 piece
- earthing rod - 1 piece
- dismantling hook (CDA/E) - 1 piece
- clamp dispenser - 1 piece or intermediary piece (E) - 1 piece

The short-circuiting device is delivered in a transport bag/box.



**Msp - CAA - AST - 3xS<sub>i</sub>/I<sub>r</sub> - S<sub>p</sub>/I<sub>p</sub> - O/p (clamp dispenser)**



**Msp - CAA - AST - 3xS<sub>i</sub>/I<sub>r</sub> - S<sub>p</sub>/I<sub>p</sub> - O/p - CR (CEZ model)**



**CLAMP DISPENSER**



**INTERMEDIARY PIECE (E)**



**DISMANTLING HOOK (CDA/E)**



**EARTHING ROD**

| General technical characteristics for three-phased short-circuiting device for MV overhead lines - application from the pole |          |       |     |      |      |       |
|--|----------|-------|-----|------|------|-------|
| Short-circuiting S <sub>i</sub> and earthing S <sub>p</sub> cable section (mm <sup>2</sup> )                                 | 16       | 25    | 35  | 50   | 70   | 95    |
| Nominal short-circuiting current for t = 1 s I <sub>sc</sub> (kA)  | 4        | 6     | 8   | 12   | 16   | 18    |
| Nominal peak current for t = 0,02 s I <sub>sd</sub> (kA)   | 10       | 15    | 20  | 30   | 40   | 50    |
| Testing short-circuiting current for t = 1 s (kA)  | 4,6      | 6,9   | 9,2 | 13,8 | 18,4 | 20,7  |
| Testing peak current for t = 0,02 s (kA)   | 11,5     | 17,25 | 23  | 34,5 | 46   | 51,75 |
| Peak factor (according SR EN 61230)  | 2,5      |       |     |      |      |       |
| Short-circuiting cable length l <sub>i</sub> (m)   | max. 2,5 |       |     |      |      |       |
| Earthing cable length l <sub>p</sub> (m)   | max. 15  |       |     |      |      |       |
| Conductor diameter on which the clamp can be applied (mm)  | 6 ÷ 32   |       |     |      |      |       |