



MEDIUM VOLTAGE OVERHEAD LINES

Three-phase short-circuiting device for MV overhead lines - application from the ground or height - CAA clamp

Code: Msp - CAA - U - 2xS_f / I_f - S_p / I_p - O/p

Application: from the ground or from height, by hanging the self-locking clamps (CAA) on the conductor, followed by the pulling down the clamp, which is automatically removed from the clamp applicator.

Automatic self-locking clamps (CAA) must be handled with an appropriate insulating stick for the installation and mounting position.

The following sequence of operations shall be observed:

1. Using the earthing subassembly, one conductor of the line is earthed,
2. Using the short-circuiting subassembly, the three conductors of the line are short-circuited, starting with the conductor earthed in the previous operation.

Components:

- **Short-circuiting subassembly** for 3 overhead conductors consisting of:
 - ▶ **Automatic self-locking clamp (CAA)** - 3 pieces
 - ▶ **Short-circuiting cable** - 2 pieces
- **Earthing subassembly** consisting of:
 - ▶ **Automatic self-locking clamp (CAA)** - 1 piece
 - ▶ **Earthing cable** - 1 piece
 - ▶ **Earthing clamp** - 1 piece
- **Clamp applicator (PAS/E or PAS/C)** - 1 piece
- **Removal fork (CDAU/E or CDAU/C)** - 1 piece
- **Mobile earthing rod** - 1 piece

Packing: waterproof bag

Related products:

- Multipurpose modular insulating stick type **PMU 20-1 B/ba** or **PMU 20-1 B/baS** (for application from height), provided with "RO bayonet" coupling system (see page 10)
- Multipurpose telescopic insulating stick type **PTU 20-35 F**, **PTU 20-110 F** or **PTU 20-45-110 C** for application from height), provided with "hexagon 12" coupling system (see page 11)
- Multipurpose telescopic insulating stick type **PTU-AS-400-6-c** (for application from the ground), provided with "hexagon 12" coupling system (see page 11)

Tips: coupling ends of the clamp applicator / removal fork must be selected to be adapted to the coupling system of the insulating stick.

SR EN 61230 **R**



SHORT-CIRCUITING SUBASSEMBLY



EARTHING SUBASSEMBLY



CLAMP APPLICATORS
PAS/E PAS/C



REMOVAL FORKS
CDAU/E CDAU/C



MOBILE EARTHING ROD

Technical characteristics

Short-circuiting and earthing cable cross-section S _f , S _p (mm ²)	16	25	35
Nominal short-circuit current for t = 1 s I _{sc} (kA)	4	6,25	8
Shock (peak) nominal current for t = 0,02 s I _{sd} (kA)	10	15,63	20
Test short-circuit current for t = 1 s (kA)	4,6	7,2	9,2
Test shock (peak) current for t = 0,02 s (kA)	11,5	17,97	23
Power factor (according to SR EN 61230)		2,5	
Short-circuiting cable length I _f (m)		max. 4	
Earthing cable length I _p (m)		max. 17,5	
Diameter of the conductor where the CAA clamp can be applied (mm)		5 ÷ 32	