



### Universal polyphase short-circuiting device for LV overhead lines (insulated and bare conductors)

**Code:** Msp - 1 - nxS<sub>f</sub>/I<sub>f</sub> - S<sub>p</sub>/I<sub>p</sub> - O/F/p

**Intended purpose:** earthing and short-circuiting of all types of low voltage overhead lines in Romania.

**Application:** from height (from the ladder, from the basket).

**Overhead lines with twisted conductors provided with COT 10-95 A voltage connectors:** The short-circuiting subassembly, the earthing subassembly and the earthing electrode are used.

**Overhead lines with twisted conductors provided with DPS voltage connectors:** use the short-circuiting subassembly, in which plugs are mounted with the coupling adaptors to DPS connectors (from the kit), the earthing subassembly and the earthing electrode.

**Overhead lines with bare conductors:** use the self-tightening clamps with insulating stick coupled to the plugs of the short-circuiting device, the earthing subassembly and the earthing electrode.

**Components:** The short-circuiting subassembly is provided with:

- Coupling plug for voltage connectors type COT 10-95 A - "n" = 4...7 pieces
- Short-circuiting cable - 3...6 pieces
- Connection cable to the earthing subassembly provided with socket - 1 piece

**I The earthing subassembly is provided with:**

- Plug for the connection to the short-circuiting subassembly - 1 piece
- Earthing cable - 1 piece
- Manual earthing clamp - 1 piece
- Set of self-tightening clamps with insulating stick for bare LV overhead lines - "n" = 4...7 pieces
- Set of coupling adaptors to DPS\* (see NOTE) - "n" = 4...7 pieces
- Insulating extension stick - 1 piece
- Mobile earthing electrode - 1 piece

**Packing:** waterproof bag.

SR EN 61230



SHORT-CIRCUITING SUBASSEMBLY



EARTHING SUBASSEMBLY



SET OF 4...7 SELF-TIGHTENING CLAMPS WITH INSULATING STICK



SET OF 4...7 COUPLING ADAPTORS TO DPS CONNECTORS



INSULATING EXTENSION STICK



MOBILE EARTHING ELECTRODE (PEG)

#### Technical characteristics

Rated operating voltage U <sub>n</sub> (kV)	max. 1		
Phase S <sub>f</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	8
Shock (peak) nominal current for t = 0,02 s I <sub>sd</sub> (kA)	8	12	16
Test short-circuit current for t = 1 s (kA)	4,6	6,9	9,2
Shock (peak) nominal current for t = 0,02 s (kA)	9,2	13,8	18,4
Power factor (according to SR EN 61230)	2		
Phase cable I <sub>f</sub> length (m)	max. 1		
Earthing cable I <sub>p</sub> length (m)	max. 15		
Number of self-tightening clamps / adaptors for DPS connectors	max. 7		
Protection length of the insulating stick (m)	0,35		
Total protection length of the stick, with the extension piece (m)	0,84		
Conductor diameter where the phase clamp can be applied (mm)	5 ÷ 16		
Conductor cross-section where the phase clamp can be applied (mm <sup>2</sup> )	25 ÷ 120		
Type of connectors where the short-circuiting device can be assembled (in networks with twisted conductors)	COT 10-95 A (Romind T&G) DPS* (Eximprod)		

\* NOTE: nominal short-circuit current for t=1 s - max. 6 kA