



## RAILWAYS

### Single-phase short-circuiting device for the railway contact line

SR EN 61230



Code: Msp - CrTf - S<sub>p</sub>/I<sub>p</sub>- Fc/ps

**Application:** from the ground, by hanging the clamp on the contact line, followed by tightening the clamp driving screw.

The classic CrTf phase clamp must be handled with an insulating stick according to the voltage of the installation.

**Components:**

- Classic reduced clamp for railway transportation (CrTf) for connection to the contact line - 1 piece
- Earthing cable – 1 piece
- Earthing clamp for the connection to the rail (CLPS) – 1 piece

**Packing:** waterproof bag

**Tips:** considering the positioning of the contact line, for the application of the phase clamp to the contact line we recommend the use of:

- Multipurpose modular insulating sticks **PMU 400-3 B/ba** (see page 10) or
- Multipurpose telescopic insulating sticks **PTU AS-400-4-C** - 6 m long (see page 11) + hexagon-bayonet adaptor **ACMIT/C** (see page 14)



Technical characteristics	Railway					Subway
Earthing cable cross-section S <sub>p</sub> (mm <sup>2</sup> )	16	25	35	50	70	120
Nominal short-circuit current for t = 1 s I <sub>sc</sub> (kA)	4	6,25	8,75	12,5	16	30
Shock (peak) nominal current for t = 0,02 s I <sub>sd</sub> (kA)	10	15,63	21,9	31,25	40	60
Test short-circuit current for t = 1 s (kA)	4,6	7,2	10,06	14,38	18,4	34,5
Test shock (peak) current for t = 0,02 s (kA)	11,5	17,97	25,16	35,94	46	69
Power factor (according to SR EN 61230)	2,5					2
Earthing cable length I <sub>p</sub> (m)	max. 16					1,5
Diameter of the conductor where the phase clamp can be applied (mm)	6 ÷ 32					Rail type 40
Type of rails	40, 49, 60, R65					40, 49, 60, R65

### Single-phase short-circuiting device for the third rail of the subway

SR EN 61230



Code: Msp - CM - 120/1,5 - S3/ps

**Application:** from the ground, by positioning the phase clamp on the third rail, followed by the tightening of the clamp on it. The phase clamp must be handled using an insulating stick corresponding to the voltage of the installation.

**Components:**

- Special clamp for the third rail – 1 piece
- Earthing cable – 1 piece
- Earthing clamp for the connection to the rail (CLPS) – 1 piece
- Bayonet-hook adaptor (AF E-K) – 1 piece (see page 13)

**Packing:** waterproof bag

**Related products:**

- Multipurpose modular insulating stick type **PMU 20-1 B/ba / PMU 20-1 B/baS** (see page 10)

**Technical characteristics:** see the table above (last column - Subway)



AF E-K