



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

SR EN 61230



Code: Msp - CCTU-Tf - S_p/I_p- Fc/ps

Intended use: earthing of the contact line of the railway power installation.

Application: from the ground, by the hanging of the clamp on the conductor, followed by the tightening of the clamp actuator screw. The classic CCTU-Tf phase clamp must be handled with an insulating stick according to the installation.

Components:

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

Packing: waterproof bag.

Tips: considering the positioning height of the contact line from the ground, for the application of the phase clamp to the contact line we recommend the use of PMU 400-3 B/ba sticks or of 6 metre long telescopic sticks PTUAS-400-4-C + hexagon-bayonet adapter ACMIT/C.



Technical characteristics	Railway installation (CFR)					Underground
Earthing S _p cable cross-section (mm ²)	16	25	35	50	70	120
Nominal short-circuit current for t = 1 s I _{sc} (kA)	4	6,25	8,75	12,5	16	30
Shock (peak) nominal current for t = 0,02 s I _{sd} (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
Length of the earthing cable l _p (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 underground

SR EN 61230



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

Intended use: earthing of the third rail of the underground.

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 installation.

Components:

- = Special clamp for the third rail – 1 piece
- = Earthing cable – 1 piece
- = Manual clamp for the connection to the rail (CLPS) – 1 piece
- = Bayonet-hook adapter (AF E-K) – 1 piece

Packing: waterproof bag.

Other equipment to be used in conjunction:

- insulating stick type PMU 20-1 B/ba / PMU 20-1 B/baS

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

