Single-phase / three-phase short-circuiting device for rectangular cross-section bars

SR EN 61230

Code: Msp - C - S_p/l_p - P/p **Msp - C - $3xS_f/l_f$ - S_p/l_p - P/p**
Msp - CA - S_p/l_p - P/p **Msp - CA - $3xS_f/l_f$ - S_p/l_p - P/p**

Intended use: earthing of **rectangular cross-section bars** in transformer stations: flat bars, bar packets or busbars of various thicknesses.

Application: by the application of the phase clamps on the rectangular section bar, followed by the tightening of the clamp actuator screw.
Classic / automatic phase clamps must be handled using an insulating stick according to the installation, provided with "RO bayonet" coupling system.
Constructive shapes: ***single-phase*** *or* ***three-phase***

Constructive types of phase clamps:
- ✓ **Classic clamp**
- ✓ **Automatic clamp** (**CA**)

Components:
The single-phase short-circuiting device includes the following components:
- **Phase clamp** - 1 piece
- **Earthing cable** – 1 piece
- **Manual earthing clamp** – 1 piece

The three-phase short-circuiting device includes the following components:
- **Phase clamp** - 3 pieces
- **Phase cable** - 3 pieces
- **Earthing cable** – 1 piece
- **Manual earthing clamp** – 1 piece

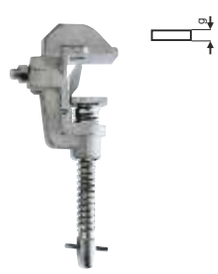
Packing: waterproof bag.

Other equipment to be used in conjuction:
- connecting insulating stick type PMU 20-1 B/ba / PMU 110-2 B/ba

General technical characteristics of short-circuiting devices applicable on rectangular cross-section bars							
Earthing S_p cable cross-section (mm^2)	16	25	35	50	70	95	120
Nominal short-circuit current for t = 1 s I_{sc} (kA)	4	6,25	8,75	12,5	17,5	23,75	30
Shock (peak) nominal current for t = 0,02 s I_{sd} (kA)	10	15,63	21,9	31,25	43,75	59,38	75
Test short-circuit current for t = 1 s (kA)	4,6	7,2	10,06	14,38	20,13	27,31	34,5
Test (shock) current for t = 0,02 s (kA)	11,5	17,97	25,16	35,94	50,31	68,3	86,25
Power factor (according to SR EN 61230)				2,5			

Phase clamp type	Classic clamp (C)	Automatic clamp (CA)
Length of phase cables - three-phase short-circuiting device l_f (m)	max. 1,5	max. 1,5
Length of the earthing cable - single-phase / three-phase short-circuiting device l_p (m)	max. 8,5 / max. 7	max. 8,5 / max. 7
Thickness of the flat bar where the phase clamp **g** can be mounted (mm)	max. 40	max. 37

CLASIC CLAMP
(C)



AUTOMATIC CLAMP
(CA)