



Single-phase / three-phase short-circuiting device for conductors of various shapes - lightweight universal classic clamps

SR EN 61230

Code: Msp - CCRU/E - S_p/I_p - S/O/P/p Msp - CCRU/E - $3 \times S_f/I_f$ - S_p/I_p - S/P/p
Msp - CCNU/E - S_p/I_p - S/O/P/p Msp - CCNU/E - $3 \times S_f/I_f$ - S_p/I_p - S/P/p

Application: from the ground, by mounting the phase clamp on the conductor, followed by the tightening of the clamp driving screw.

Lightweight universal classic phase clamps must be handled using an insulating stick according to the voltage of the installation, provided with “**RO bayonet**” coupling system.

Constructive shapes : single-phase or three-phase

Constructive types of phase clamps:

- ✓ Universal Classic Reduced Clamp (CCRU/E)
- ✓ Universal Classic Normal Clamp (CCNU/E)

Components:

● **Single-phase short-circuiting device** consisting of:

- ▶ Phase clamp - 1 piece
- ▶ Earthing cable - 1 piece
- ▶ Earthing clamp - 1 piece

● **Three-phase short-circuiting device** consisting of:

- ▶ Phase clamp - 3 pieces
- ▶ Short-circuiting cable - 3 pieces
- ▶ Earthing cable - 1 piece
- ▶ Earthing clamp - 1 piece

Packing: waterproof bag

Related products:

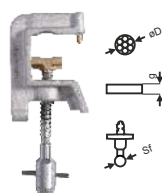
- Multipurpose modular insulating stick type **PMU 20-1 B/ba** (see page 10)



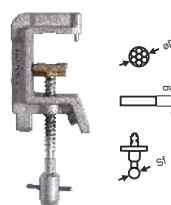
General technical characteristics of short-circuiting devices with phase clamp types CCRU/E and CCNU/E

Phase clamp type	CCRU/E or CCNU/E				CCNU/E	
Earthing cable cross-section S_p (mm ²)	16	25	35	50	70	95
Nominal short-circuit current for $t = 1$ s I_{sc} (kA)	4	6,25	8,75	12,5	17,5	23,75
Shock (peak) nominal current for $t = 0,02$ s I_{sd} (kA)	10	15,63	21,9	31,25	43,75	59,38
Test short-circuit current for $t = 1$ s (kA)	4,6	7,2	10,06	14,38	20,13	27,31
Test shock (peak) current for $t = 0,02$ s (kA)	11,5	17,97	25,16	35,94	50,31	68,3
Power factor (according to SR EN 61230)	2,5					

Phase clamp type	Universal classic reduced clamp (CCRU/E)	Universal classic normal clamp (CCNU/E)
Short-circuiting cable length l_f - three-phase short-circuiting device (m)	max. 2,5	max. 2,5
Earthing cable length l_p - single-phase / three-phase short-circuiting device (m)	max. 10 / max. 7,5	max. 10 / max. 7,5
Thickness of the flat bar where the phase clamp can be mounted g (mm)	max. 30	max. 45
Diameter of the sphere-type coupling part S_f (mm)	20 / 25	20 / 25
Diameter of the conductor where the phase clamp can be applied $\varnothing D$ (mm)	4 ÷ 30	4 ÷ 36



UNIVERSAL CLASSIC
REDUCED CLAMP (CCRU/E)



UNIVERSAL CLASSIC
NORMAL CLAMP (CCNU/E)