



Single-phase / three-phase sort-circuiting devices provided with universal clamps with insulated handle - type CCRU/B or CCNU/B

SR EN 61230

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

**Intended use:** earthing of LV conductors / power bars of various shapes in power cells, cabinets, bays or distribution boxes.

**Application:** by the application of the clamp on the conductor / bar, followed by the tightening of the actuation screw of the clamp with insulated handle.

**Constructive types:** *single-phase* or *three-phase*.

**Types of phase-clamps:**

- ✓ Classic universal reduced clamp with insulated handle (CCRU/B)
- ✓ Classic universal normal clamp with insulated handle (CCNU/B)

**Components:**

The single-phased 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.



SINGLE-PHASE SHORT-CIRCUITING DEVICE



THREE-PHASE SHORT-CIRCUITING DEVICE

General technical characteristics for short-circuiting devices provided with CCRU/B and CCNU/B universal clamps

| Clamp type                                                  | CCRU/B or CCNU/B |       |       |       |       | CCNU/B |
|-------------------------------------------------------------|------------------|-------|-------|-------|-------|--------|
| Rated operating voltage $U_n$ (kV)                          | max. 1           |       |       |       |       | max. 1 |
| Earthing $S_p$ cable cross-section (mm <sup>2</sup> )       | 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                                                                         | Classic universal reduced clamp (CCRU/B) | Classic universal normal clamp (CCNU/B) |
|------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|
| Length of phase cables - three-phase short-circuiting device $l_f$ (m)                   | max. 2,5                                 | max. 2,5                                |
| Length of earthing cables - single-phase / three-phase short-circuiting device $l_p$ (m) | max. 10 / max. 7,5                       | max. 10 / max. 7,5                      |
| Thickness of the flat bar where the phase clamp $g$ can be connected (mm)                | max. 30                                  | max. 45                                 |
| Diameter of the sphere-type coupling piece $S_f$ (mm)                                    | 25                                       | 20 / 25                                 |
| Diameter of the conductor where the phase clamp can be attached $\varnothing D$ (mm)     | 4 ÷ 30                                   | 4 ÷ 36                                  |



CLASSIC UNIVERSAL REDUCED CLAMP (CCRU/B)



CLASSIC UNIVERSAL NORMAL CLAMP (CCNU/B)