Fixed couplings - ''Tr'' and ''T'' type

SR EN 61230

Intended use: construction of fixed, permanent points for the assembly of phase clamps of short-circuiting devices in high / medium voltage stations, on round cross-section conductors for the improvement of mounting conditions for the short-circuiting devices.

Assembly method: manually, at height, during the overhaul works, with the de-energisation of the installation. The application is performed on flexible multicore conductors or round cross-section rigid bars, with appropriate tools that allow the firm tightening of the conductor coupling and in strict observance of the mounting instructions.

„T" fixed coupling types:

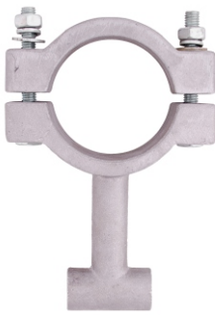
- **„Tr" fixed coupling** for flexible multicore conductors - sections between 185 și 680 mm^2 (Ø19–36 mm)
- **„T55" fixed clamp** for rigid round bars with a diameter of 55 m
- **„T80" fixed clamp** for rigid round bars with a diameter of 80 mm

Components:

- **Body** – 1 piece
- **Cover** – 1 piece
- **Fittings** – 2 sets



"Tr" COUPLING



"T" COUPLING



Fixed coupling type	"Tr" fixed coupling	"T" fixed coupling
Nominal short-circuiting current for t = 1 s I_{sc} (kA)	30	30
Nominal shock (peak) current for t = 0,02 s I_{sd} (kA)	75	75
Short-circuit test current for t = 1 s (kA)	34,5	-
Shock (peak) test current for t = 0,02 s (kA)	86,25	-
Nominal value of the peak factor	2,5	-
Nominal diameters of multicore flexible conductors ØD (mm)	19 - 36	-
Cross-section of multicore flexible conductors (mm^2)	185 - 680	-
Nominal diameters of rigid round bars ØD (mm)	-	55; 80

Coupling system with spherical pieces

SR EN 61230

Code: P 2180 M x L

Intended use: execution of permanent spherical fixed points for the mounting of phase clamps for short-circuiting devices in high / medium voltage power stations, on conductors / bars with rectangular cross-section, in order to improve the mounting conditions of short-circuiting devices.

Mounting: manual, during overhaul works with the de-energisation of the installation. The application is performed on flat bars, bar packets of busbars of various thicknesses, using appropriate tools that allow the firm tightening of the part on the conductor.

Types of spherical parts: 3 types (with various forms: straight or inclined)

- **Fixed parts type ''Sphere Ø30 mm"**
- **Fixed parts type ''Sphere Ø25 mm"**
- **Fixed parts type ''Sphere Ø20 mm"**

Components:

- **Spherical coupling part** - 1 piece
- **Assembly item** - 1 set (with sizes as per the customer's demands)

Tips: these fixed spherical parts are recommended for installation instead of bar assembly screws.









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Technical characteristics			
Sphere diameter (mm)	20	25	30
Nominal short-circuiting current for t = 1 s I_{sc} (kA)	19	23,75	30
Nominal shock (peak) current for t = 0,02 s I_{sd} (kA)	47,5	59,38	75
Stud thread dinension	M12	M12	M12; M14; M16
Free length of the stud rod - on demand (mm)	30; 40	30; 40	30; 40; 50; 60; 70; 80
Type of phase clamp which can be applied on this system	CCRU / CCNU	CCRU / CCNU	CCU / CAU / CARU