SHORT-CIRCUITING (EARTHING) **EQUIPMENT VHV 123 kV**

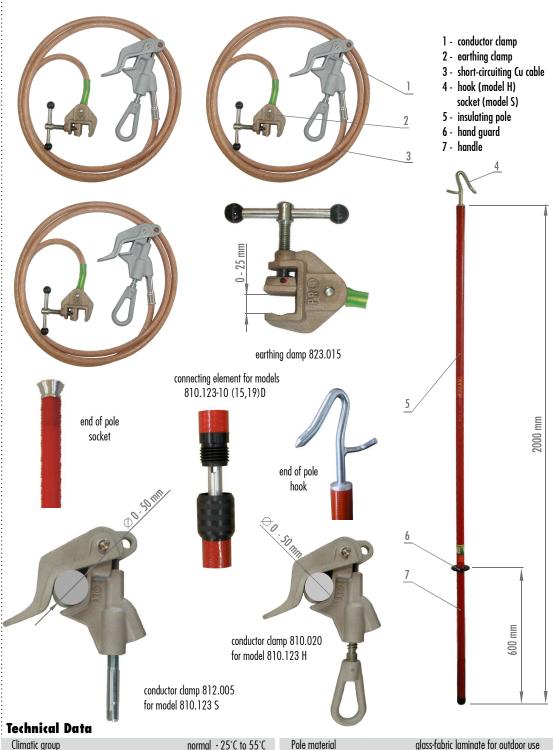
for \emptyset conductors 0 - 50 mm

Models

810.123 - 10 (15,19) H (S) 810.123 - 10 (15,19) D, H (S)

General Information

The short-circuiting (earthing) equipment is designed for short-circuit making and earthing of the circuit in networks with an earthed node of the nominal voltage of up to 110 kV. The short-circuiting set consists of one insulating pole and three short-circuiting cables ended with conductor and universal earthing clamps to connect it to the conductor of circular cross section up to 50 mm in diameter. Conductor clamps are connected to earthing clamps by Cu cables in transparent isolation. Insulating pole is made of glass-fabric laminate which is suitable for its high electrical and mechanical resistance and stability. Upper part of pole is ended with hook (model H) or socket (model S) to connect of conductor clamp. It fulfills the requirements on the protection equipment for outdoor use. The set is determined for outdoor use under normal climatic conditions. The handle is provided with the protecting ring (hand guard). Short-circuiting set complies with standards ČSN EN 61230 ed.2, IEC 61230, DIN 46235. It is produced in three models for various shorttime withstanding current with the pole in all or divided. It is possible to modify the model at the custom's request. Note: Insulating pole can be delivered divided to two parts for models 810.123-10(15,19)D. Poles are connected by means of connecting element.



PRO 8 s.r.o., Semtín 96 530 02 Pardubice, Czech Republic

Short-circuited conductor diameter

Lenght of pole

Lenght of handle

Rated short-time withstanding current

tel. +420 466 824 930

0 - 50 mm

2000 mm

600 mm

39 mm

10 (15/19) kA/1 s

e-mail: pro8@pro8.cz www.pro8.cz

Cross section of cable

Tightening of clamps

Weight of equipment

Lenght of cable

Changes excepted! Last revision January 2022



50 (70/95) mm²

4000 mm

12 Nm 13.5 (16/19) kg

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(EARTHING)
EQUIPMENT
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for \varnothing conductors \emptyset - 50 mm





Before using the set, it is necessary to use a voltage detector to be sure that the traction is without tension.

The short-circuiting equipment is fixed in this way:

- 1) connect both insulating poles by means of connecting element before using, to check of stability of tightening and to performe the visual check of their status (model D the only)
- 2) fix the earthing clamp to the earthing conductor or to the metallic grounded construction
- 3) push this clamp into the socket on the insulating pole to fix the conductor clamp properly (model S) or hang the clamp by the hook (model H)
- 4) rotate the insulating pole (while holding the clamp) until the clamp jaws open according to the diameter of the short-circuited conductor
- 5) put the conductor clamp on the short-circuiting phase conductor of circular cross section
- 6) rotate reverse by the insulating pole to constriction of the clamp
- 7) pull the pole backward from the conductor clamp to release the pole
- 8) fix other two clamps in the same way including the the earthing clamps
- 9) when removing the clamp, proceed reversely

Make sure the clamp is tightened properly. The tightening torque must not exceed 12 Nm.

The short-circuiting set should only be used on electrical facilities with nominal voltage for which it is designed.

The instructions for use should be incorporated into the local operating and safety regulations.

The set may only be used by qualified personnel.





The set must be kept in good technical condition. Make sure that the set is stored in the way to keep it dry and to prevent any mechanical damage. Perform a visual check before each use. At least once a year, it is necessary to perform a thorough check of the whole set, including cleaning and tightening all the connecting points.

For common cleaning of teh poles use damp cloth, for more resistance dirt use technical alcohol. Do not use any organic solvents or any substances which may have a decolorizing effect.

!!! The set must be eliminated or proved again its right funkcionality, when a short-circuiting current has already gone through short-circuiting current !!!



Testina

The set is type-tested according to valid standards by the authorised labratory. Each set is separately tested piece by piece before expedition and labeled too. The label includes the test date (quarter/year) and the number of the authorised laboratory.



The cables with clamps are supplied in a water-resistant carry bag. The insulating poles are wrapped in a transparent plastic foil. There is enclosed the function description and the directions for use, the Certificate about quality and completeness of product and product test.



The guarantee period is 24 months long and starts on the day the product is delivered to the customer. It applies to any defects probably caused by the manufacture. The guarantee does not cover any defects resulting from improper use, unprofessional handling, or unsuitable storing.



