

Examination Procedure	Beteckning / Document KBE EP-150
	Utgåva / Issue 1 (E)
	Datum / Date 1997-08-28
	Ersätter / Supersedes KSU-KBE EP-150 (E)
Rubrik / Title Protective earth continuity examination	

1 Scope

This Examination Procedure is normally applicable as routine inspection to electrical equipment.

2 Objective

To verify that devices and components installed in cabinets, boxes or racks are connected to the PE-busbar or equivalent point in a fully satisfactory manner with regard to personal safety (PE=Protective Earth).

3 Method

The examination is to be performed as a visual inspection combined with continuity check.

Particular attention must be directed at the following points:

- Layout of the protective earthing
- Protective earthing of equipment
- Removable equipment
- Connection of external PE-conductors (from the internal PE-grid)
- Choice of material
- Current-carrying capacity of PE-conductors
- Sufficient area of mounting rails for PE terminal blocks

4 Acceptance Criteria

The visual inspection and continuity check must ensure that the specified requirements have been met.

5 Documentation

Inspection performed is to be documented in a inspection certificate, record or technical report as required in the Inspection Plan. Several examinations within one and the same Inspection Plan may be reported in the same document.

Examinations carried out as routine (100%) inspection are to be reported to the Purchaser as original documents.

The document must as a minimum include the following:

- Items examined

Product, designation, quantity, serial numbers and reference to the Purchasers order.

- Identity / Traceability

The identity of the objects under examination in comparison with type tested items and in comparison with relevant specifications must be specified, unless the identity is certified in a separate document (as per KBE EP-180).

- Examination procedure

It must be clearly stated if the inspection has been performed according to this Examination Procedure or to any other procedure agreed upon.

- Measurement equipment

Type of equipment, accuracy, identification, etc, and current calibration data for the equipment used where performance is significant to the results.

- Results

It must be evident that the items have fulfilled stated requirements and acceptance criteria. Measured and recorded values that are to be documented as per the procedure as well as any deviations from requirements in applicable specifications or test procedures must be reported.

- Approval

Date of inspection and name of responsible inspector are to be included. The document must be reviewed and approved in accordance with the Manufacturers or the laboratory's internal QA/QC routines.