

<b>Examination Procedure</b>  Rubrik / Title <b>Checking of wiring</b>	Beteckning / Document <b>KBE EP-113</b>
	Utgåva / Issue <b>1 (E)</b>
	Datum / Date <b>1997-09-17</b>
	Ersätter / Supersedes <b>KSU-KBE EP-113 (E)</b>

## **1 Scope**

This Examination Procedure is applicable to electrical products and is to be carried out as routine inspection or type inspection, as specified in the Inspection Plan.

## **2 Objective**

To check that internal wiring is correct.

## **3 Method**

Each external terminal or connection of the product shall be connected (one at a time) in turn to one pole of a suitable continuity tester. The other pole is then connected to the point to which the particular external connection is supposed to be linked. The electrical continuity is checked.

The continuity tester used should have a low output voltage. For each point checked, the cable and terminal marking etc. shall be examined.

If the unit contains internal wiring which would not be verified by the above method, it has to be checked separately.

Relays or switches in the unit shall be operated, if required to ensure that all circuits are checked.

Sensitive components may be removed, short-circuited or bypassed if necessary.

## **4 Acceptance Criteria**

When the checks are carried out, the circuits in the item or equipment must agree with relevant documentation in the form of circuit diagrams, wiring lists, etc. Marking and identification shall also be in accordance with applicable Technical Requirements.

## 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.