

Product Specification Interturn Test Device AT-ITD

Product: Interturn test device
Type: AT-ITD
Edition: 08/13

1. Description

The Interturn strand tester was developed for the measurement of straight bar short circuits after consolidation of the straight bar section. The AT-ITD is designed for two-rowed bar types.

2. Technical Data

Width: approx. 450 mm
Height: variable (normally about 1000 mm)
Length: approx. 380 mm
Weight: approx. 80 kg
Max. no. of strands: variable
Standard: max. 2x40 strands per bar
Testing voltage: max. 300 V AC
Testing current: max. 30 mA

3. Scope of supply

The AT-ITD consists of:

Frame (adjustable in height)

Testing equipment head

2 separators for expanding the strands

Electric control cabinet

Touch screen including software for conversion and evaluation of the data

4. Operation

The strands must be spread out on a separator. This must be done on each side of the bar. (On the measurement side and also on the other side – all strands are isolated from each other). One side of the bar is inserted into the test appliance head. The upper part of the test appliance head will be closed manually. By doing so, the strands are contacted

on both sides. Now the test program is ready to start. The measurement works automatically.

Each strand is contacted with two separate measurement pins. The first pin checks the contact between the strand and the second pin. With this method it is guaranteed that both pins are in contact with each strand. If there is no contact a message will appear on the PLC screen.

The second pin is the measurement pin and brings the measurement voltage into the strand. If there is contact – insulating defect – the defect will be registered and recorded. Each strand is tested in relation to the next one. The test results are reported in a text file. This file can be viewed on the PLC screen and can also be saved electronically. Each bar should get a number, and with that number the file containing the results will be saved. In this way it is possible to identify each bar with the file containing its measurement results. An interface to a network or a quality system is available and can be ordered separately.

5. Packshot

