THREE-PHASE AUTOTRANSFORMER WITH CONTINUOUS CONTROL TYPE ATT-01

GENERAL

The three-phase autotransformer with continuous control ATT-01 is incorporated into the test stand equipment. It has three-phase supply, and the line voltage at the output is in the range 0-380 V, at a maximum delivered current of 400 A.

CHARACTERSITICS

- Power..... 300 kVA
- Input rated voltage..... 3 x 380 V
- Output rated voltage..... 3 x (0-380)V;
  control step: 0.5 V/step
- Output maximum current..... 400 A
- Frequency.....50 Hz
- Connection group..... Y, a0
- Insulation class ..... F
- Protected IP54 according SRCEI 54-95

DESCRIPTION

The autotransformer achieves a quasi – continuous control of the output voltage in the range 0-380 V by means of a voltage divider based on the principle of the flux division through magnetic core into n parts. Thus, it is obtained the division of the turn voltage into n parts. The voltage step switching is done by a brush – collector system. The drive of the transformer cursor is electrically performed by means of a three – phase asynchronous motor of 0.75 kW at 1400 r.p.m. with reducer and electromagnetic brake.

MODE OF OPERATION

For the adjusting of the voltage to the desired value, the button UP CURSOR or DOWN CURSOR on the control panel or on the REMOTE CONTROL box should be operated. The upward cursor displacement achieves the voltage decrease. The displacement sense of the cursor is indicated by the corresponding LEDs. When the desired value of the output voltage is reached, the control is disconnected. The cursor will continue the displacement until the both brushes are placed on the following contact plate, position indicated by the PAS LED turning off.

The arrival of the cursor at one of the stroke ends causes that is operation stops immediately, this situation being indicated by one of the WARNING LEDs. The starting of the cursor is made in this case by operating it in reverse sense.

DIMENSIONAL CHARACTERISTICS

- Overall dimensions: 980 x 1500 x 1865 [mm]
- Weight:2150 kg