SIMULATOR OF A POWER TRANSMISSION LINE

Mod. SEL-2/EV

TECHNICAL CHARACTERISTICS:

- Desk-type box of chemically treated sheet steel, painted with epoxy coats.
- Side handles for easy transport.
- Fore panel of insulating material, with screen silk printed diagram of the components.
- All safety terminals ø 4 mm.

The simulator operates with Un: 3 x 220 V and it reproduces a 130-km long power transmission line of 77 kV, with the following characteristics:

- Rated voltage: 77 kV
- Rated current: 100 A
- Rated power: 13 MW
- Equivalent resistance: 3.5 Ω
- Concentrated equivalent capacitance: 10 μF
- Loop earth impedance: 0.8 Ω

The transmission line is protected against overload and short circuit by quick blow fuses.

COMPONENTS INSTALLED ON THE PANEL:

- Model of line: concentrated parameters, PI cell
- Simulated Un: 77 kV
- Operating Un: 3 x 220 V, 50 Hz
- Simulated Pn: MVA
- Simulated In: 100 A
- Operating In: 0.5 A
- Distributed equivalent R: 3 x 1.5 Ω or 3 x 23 Ω, selectable.
- Distributed equivalent L: 3 x 10 mH or 180 mH, selectable.
- Capacitors of line start and end: 3 x 2 μF or 3 x 0.22 μF, selectable. They may be connected in star, delta configuration, or earthed.
- Earth loop impedance: 0.8 Ω selectable.
- Three-pole switch of connection of the line.
- Fuse-holder with fuses: 6 x 30 In: 1 A

Possibility of using the line separately, or more lines series/parallel connected.

Dimensions: 415 x 400 x 150 mm
Net weight: 8 kg

SUPPLIED WITH

OPERATIONAL HANDBOOK WITH EXERCISES

ACCESSORIES:

- 12 jumpers and 6 cables with safety terminals (ø 4 mm)