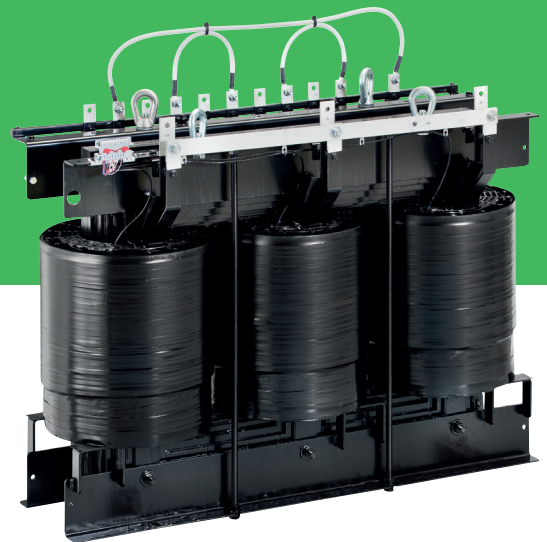


BC Imprego

LV/LV & MV/LV Transformers

Impregnated transformers and autotransformers up to 5 MVA - 12 kV



Product at a glance

BC Imprego LV/LV and MV/LV impregnated transformers provide reliability and efficiency, adapted to many applications.

Benefits:

- Guaranteed against fire hazards (self-extinguishing)
- Good resistance to harsh environments (pollution or condensation)
- Compliance with very specific design and applications
- Easy and quick to install with minimum maintenance

Description:

Transformers suitable for:

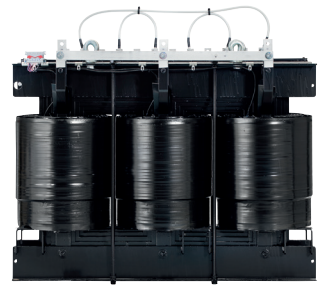
- Medical application
- Variable speed driver
- Premagnetize
- Earthing
- Dimmer
- Rectifier
- Motor Starter Autotransformers

Application fields:

- Industry
- Building and infrastructures
- Medical application
- Data center
- Oil & Gas
- Marine
- Secure networks

BC Imprego

Impregnated transformers & autotransformer
up to 5 MVA - 12 kV



Technical data

General characteristics:

- Power range
 - Three-Phase transformer: 8 to 5,000 kVA
 - Single-Phase transformer: 5 to 4,000 kVA
- Frequency: 50/60Hz. (until 1,5 kHz)
- Supply voltage range up to 12 kV
- Voltage ratio: customer specification
- Coupling option: customer specification (star; delta; zigzag)
- Vector groups adapted to customer specification (Dyn11; Ynd05; Dz00 etc.)
- Off-circuit tapping links: 3 or 5 positions, +/- 2.5%
- Maximum Current: Air Natural (AN): 12 kA / Air Forced (AF): 15 kA
- Cooling system: AN; AF; WF (mixed possible)
- Winding insulation and temperature class: B; F or H
- Ambient temperature: 40°C (more if respecting heating class)
- Altitude \leq 1000 meters (more if respecting IEC60076-11 standard)
- Electrostatic shield between the primary and the secondary (only on transformer)
- Copper or aluminum round wire; rectangular wire; pipe; foil; Litz wire
- Indoor or outdoor application
- Harmonic disturbances: K4; K9; K13 or K20
- Magnetic core in oriented or non-oriented grain electrical steel

Reference standards and conformity assessment:

- IEC/EN 61558-2-4 from 8 to 20 kVA.
- IEC/EN 61558-2-15 only for health care / medical applications
- IEC/EN 60076-11 from 25 kVA
- C2- Climatic test
- E2 – Environmental test
- F1- Fire withstand
- ROHS and REACH
- Marine certification or customer request (DNV; LLOYD'S; VERITAS ; ABS ; GL, CCS...)

Routine or extended testing, according to your needs:

All routine tests on BC Imprego range are carried out according to IEC 60076-11 and IEC 60076-1 to IEC 60076-3.

Type tests or additional tests are optional, on request and subject to prior agreement:

- Temperature rise (to IEC 60076-11)
- Lightning impulse test to IEC 60076-3
- Short circuit to IEC 60076-5 (by external laboratory)
- Noise level measurements to IEC 60076-10 (by external laboratory)
- Partial discharge measurement to IEC 60076-3 (special test)

Accessories:

Included as standard:

- 1 earthing terminal
- Lifting lugs (top or bottom according to design)
- Connection points: copper or tin-plated aluminum
- 1 rating plate to IEC 60076-11 standard

Optional:

- Protective enclosure IP 21 to IP 65 in compliance with IEC/EN 60529
 - Painted color RAL9003 (other treatments to customer specifications)
 - Cable entry on non-magnetic plate (not pre-drilled)
 - Access to terminals via disassembly of front panel
- High voltage surge arresters
- Thermostatic probes (PTC probe or PT100 probe) or thermal protection relay (converter or thermometer)
- Other accessories available on request (rollers, dampers etc.)

