

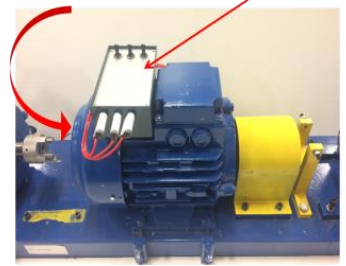
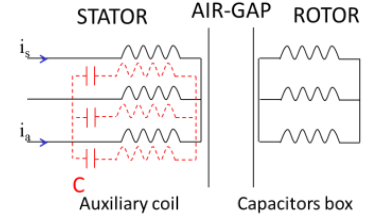


Reduction of the magnetic induction harmonics, vibrations and noise of an electrical motor

Technology

The auxiliary winding is placed in the slots

- The auxiliary winding is connected to capacitors with adequate values
- Induction air gap is more sinusoidal
- Reduction of induction harmonics
- Motor duration increased



Asynchronous machine equipped with Bobinox device

Keywords

- Auxiliary winding
- Magnetic induction
- Vibration
- Noise

Intellectual Property

World patent
PCT/EP2016/064319

Development Status

Prototype of auxiliary winding with decoupling capacitors produced in the laboratory

Partnership

Licensing and/or partnership

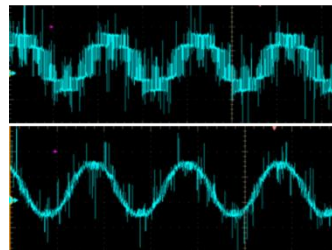
Benefits

- The system is simple, passive, without electronics.
- No adjustment required and helps combat a wide range of frequencies.
- Self-adjustments in case of speed or load change.
- The capacitors box is compact and easy to integrate.
- The benefits are stable :
 - Noise reduction : up to -10dB
 - Vibration reduction : up to -70%

Applications

- Industrial motors
- Automotive
- Railway traction
- Aviation
- Household electrical devices (washing machine)
- Roller shutter

Without Bobinox box



With Bobinox box

Reducing of induction harmonics

contact

Mohamed Bouassida

Business Developer

+33 (0)6 16 89 39 69

Mohamed.bouassida@sattnord.fr

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SATT Nord

25 avenue Charles St Venant- 59000 LILLE – France

+33 3 28 36 04 68 – tech@sattnord.fr