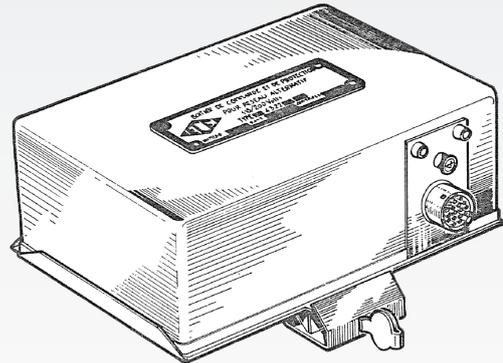


Heading and Protection Device

Intended purpose

The control and protection device enables the automatic connection to alternating current bus bars and the protection of on-board alternators with a fixed frequency (400 Hz) or an alternating frequency (380-1,000 Hz) with a nominal voltage of 115/200 V.

It serves the purpose of protecting the alternating current generator and the system from faults due to under- and overvoltage, underfrequency, overload and short circuit of supply lines, and as a possible result of overfrequency and underspeed.



Configuration of the device and technical functionality

The control and protection device consists of a hood and a base plate which is equipped with the electronic circuits, connector strips, supply rectifier transformer, two inductors and a 19-pole plug connector.

The devices are able to receive a signal from an underspeed detector which responds to the drive speed of the alternating current generator, whereby the functioning of the devices is different. The on and off function responds to the voltage and frequency.

Services provided by AUTOFLUG

- Servicing and maintenance
- Repairs (the replacement of transformers, inductors, plug connectors, plugs or relay, for example)
- Functional checks and tests
- Planning and purchasing of spare parts
- Obsolescence management

The verification of the device requires the availability of a variety of different testing instruments, including:

- Direct current source 26-32 V / 100 A
- Test stand
- AUXILEX converter with adjustable frequencies
- Decade frequency measuring device with an accuracy of 1 Hz
- Combined 200 kHz frequency, time and period measuring device