

New Electronic Units for Secop BD35F, BD35K, BD50F, and BD80CN Compressors

The present generation of electronic units for our BD35F/K, BD50F, and BD80CN range is based on ST7 microcontroller technology. Due to the end of life of this ST7 microcontroller, Secop has developed new electronic units (101N0680 and 101N0242) based on STM32 microcontroller technology.

Improvements

The key improvements of the new electronic units are:

- New yet trusted 32-bit Arm®Cortex®-M0 microcontroller platform
- Full technology upgrade using latest generation components with long term availability
- Enhanced electromagnetic interference (EMI) performance
- New, stable, and powerful fan output, now referring to battery minus, to support a wide range of fans
- The new electronic units will have a similar housing, creating more space for assembly in the lower part. (see figure 1 and 2)
- Fit and function is backwards compatible

The 101N0680 ECU will come with UL and CB approval.

Timing and Availability of 101N0650 and 101N0212

The production changeover of both electronic units will be in the second half 2024. From this time on the old 101N0650 and 101N0212 electronic unit will no longer be available.

Timing of Change

Please reserve time for your internal and external testing on all your products currently using the 101N0650 or 101N0212 electronic unit. Samples for internal and external tests will be available in May 2022.

Code Numbers

The electronic units replace their predecessors as follows:

New code numbers	Old code numbers
101N0680	101N0650
101N0242	101N0212

Table The current and new versions



Fig.1 New electronic unit 101N0680



Fig.2 More space for assembly in the lower part