MTBF for EFR 012

MTBF (Mean Time Between Failure)

It is difficult for manufacturers of series products, due to the statistical basis, to calculate an MTBF for products when the later operating conditions and system population are unknown to the manufacturer. The problem is due to the unknown variables of system conditions and population of products in use.

Because an MTBF can only be calculated with reference to a system application, the following basis is assumed for a calculation:

EFR 012 (electronic hygrostat)

- The service life of the product is estimated to be 5 years.
- The quantity sold per year is defined as the reference value for the system population.

Using these parameters, this yields an MTBF of 1,181,359,700h for the service life with the annual production used as the system population.

Statistically evaluated, a failure rate of 0.001 devices per month is to be expected during the service life based on a system population of 1,000 devices.