

How is MTTF Measured for PM Newer products?

Schneider Electric measures MTTF for PM5XXX meters, based on the Part Stress Prediction method,

How is the Part Stress calculated?

Part Stress method

- Uses complex models composed of detailed stress-analysis information as well as environment, quality applications, maximum ratings, complexity, temperature, construction, and a number of other application-related factors.
- Used near the end of the design cycle, after the actual circuit design has been defined

This calculation method is inline with IEC 62380 requirements.

MTTF is calculated as:

- Failure rate (system) = $\text{Sum}(\text{Lamda}_i)$
- $\text{MTTF system} = 1 / \text{Sum}(\text{Lamda}_i) = 1 / S (1 / \text{MTTF}_i)$

Since PM51/53XX is a new product, where data of actual field failure rate is not statistically stable we used the Prediction method for MTTF calculations.

The MTTF of the PM51/53XX is 1891917 Hrs (Approx 215.9 Years).

We (Schneider Electric) hope this information is helpful for your needs.