

4. Creep Characteristics

4.1. Creep

$$\text{Creep} = \frac{\theta_{fb} - \theta_{fa}}{\text{Rated Output}} \times 100$$

(θ_{fa} : Output for a fixed period of time (5 sec – 60 sec) after the load has reached the rated load)

(θ_{fb} : Output for a fixed period of time (15 min – 6 h) after the load has reached the rated load)

The fixed period of time after the load has reached the rated load is dependent on respective standards. In general, the time is short in Japan and long in other countries.

4.2. Creep Recoverability

$$\text{Creep Recoverability} = \frac{\theta_{ob} - \theta_{oa}}{\text{Rated Output}} \times 100$$

(θ_{oa} : Output for a fixed period of time after removing the load)

(θ_{ob} : Output for a fixed period of time after removing the load)

The creep recoverability is not normally mentioned in catalogs, etc. This is because the creep and the creep recoverability are almost proportional to each other. Thus, only the creep characteristics are written and the other is omitted. Moreover, there are no regulations from the OIML governing creep recoverability. Instead, there are regulations concerning zero return. This means that the difference between

θ_0 (output before loading) and θ_{oa} is specified.

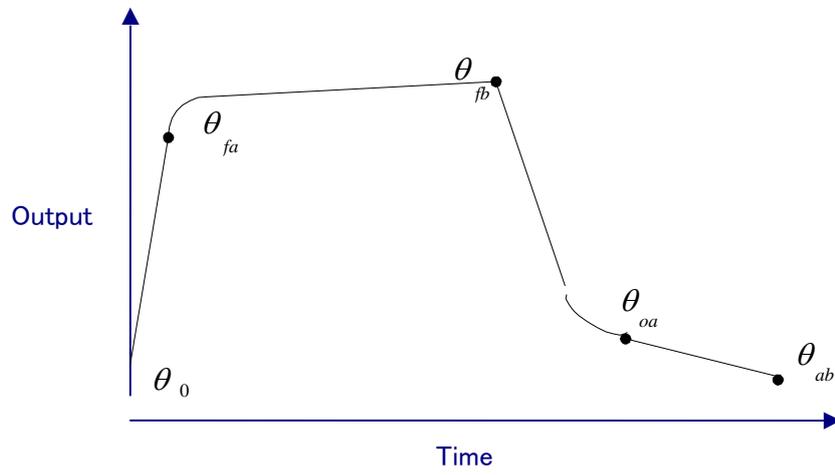


Figure 3.6