



Ideal Sytronix Load Profiles



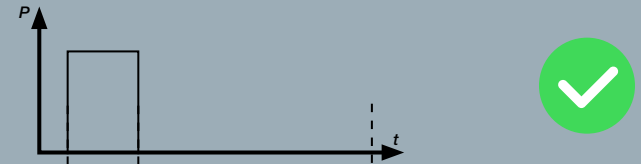
Continuous Duty

The motor operates at a continuous level for the time required to enable a machine to reach thermal equilibrium.



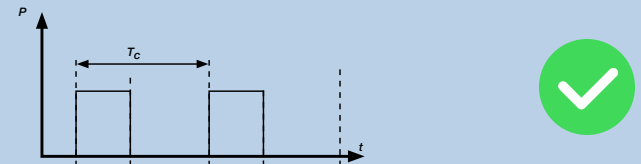
Short Time Duty

The motor operates with a load for a period of time too short to reach thermal equilibrium, preceded by sufficient time for the motor to cool down.



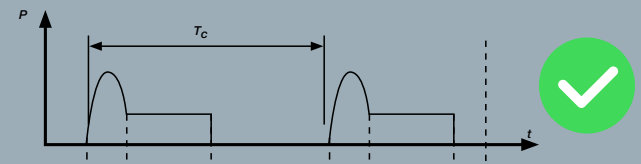
Intermittent Periodic Duty

A sequence of matching duty cycles (constant loads) followed by a rest period. The machine does not reach thermal equilibrium.



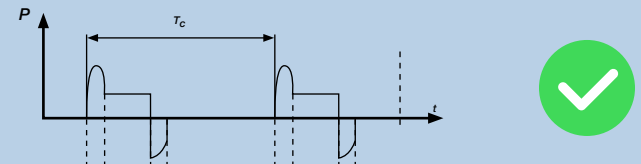
Intermittent Periodic Duty with Starting

A sequence of matching cycles followed by a rest period. The machine has significant starting time and does not reach thermal equilibrium.



Intermittent Periodic Duty with Electric Braking

A series of matching cycles—start, operate, brake, rest. The machine does not reach thermal equilibrium.



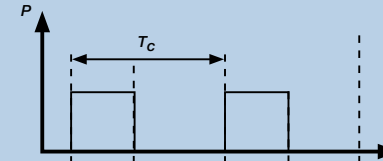


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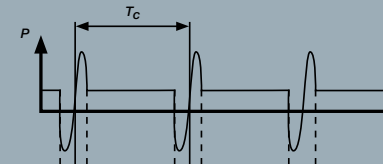
Continuous Operation Periodic Duty

Matching duty cycles with a period of load and without load. Motor runs at no-load without stopping.



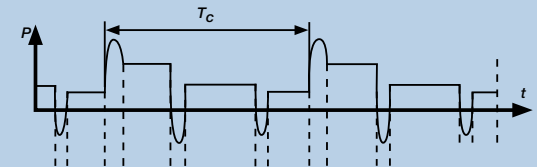
Continuous Operation Periodic Duty with Electric Braking

Matching duty cycles with a period at load followed by a period at no load with significant starting and electric braking periods.



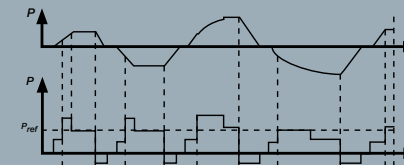
Continuous Operation Periodic Duty with Related Load/Speed Changes

A sequence of repeating duty cycles where the motor runs at different load levels and speed within each cycle. The machine does not stop or reach thermal equilibrium.



Duty with Non-Periodic Load and Speed Variations

The machine load and speed differ within an allowable range.



Duty with Discrete Constant Loads and Speeds

Duty cycles with balanced load/speed combinations sustained long enough to reach thermal equilibrium.

