

APPLICATION CASE STUDY



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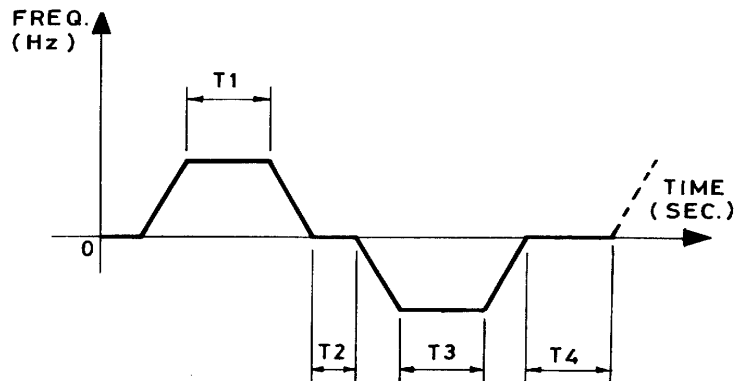
HOST ORGANISATION : STEFAB INDIA LTD., NEW DELHI
INDUSTRY : INDUSTRIAL WASHING MACHINE (50-200KG.)
APPLICATION : WASHING & EXTRACTION MACHINE

OBJECTIVE :

To achieve automation & efficiency improvement by replacing electro mechanical system with AC DRIVE system. The figure shows the speed vs. time profile graph required for Industrial Washing Machines.

The drive is programmed to attain the speed of 9 **RPM** (final) or **750 RPM** of motor when it is connected to start. After a specific time interval (programmable timer), it has to come down to **STOP and HOLD** for a while (programmable timer). The same profile is to be repeated in the reverse direction. The whole cycle is to be repeated until STOP command is given.

SPEED Vs TIME PROFILE :



PREVIOUS SYSTEM :

Contactor system in combination with a hardware timer to facilitate forward and reverse direction of the motor.

NEW SYSTEM :

The built-in software timers and programmable I/Os enable the system to achieve the required accurate time, speed and direction.

MERITS OF NEW SYSTEM :

1. Elimination of electromagnetic switch gear and timers with a single unit giving **total solution**.
2. Better system reliability.
3. Efficient control due to speed variation.
4. Easy programmability.
5. System efficiency improved due to automation.

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