

APPLICATION CASE STUDY



DOC.NO. : AMTCS-7

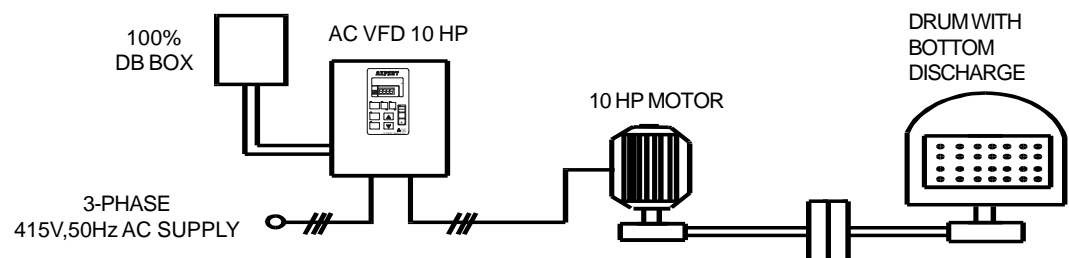
HOST ORGANISATION : ZENITH WEAVES PVT LTD. SURAT.
INDUSTRY : TEXTILE PROCESSING HOUSE
APPLICATION : HYDRO EXTRACTOR
PREVIOUS SYSTEM : Ac motor connected to washing drum with clutch & brake system with DOL starter.

PROBLEM OBSERVED :

Drum was connected to motor through operation of clutch which was resulting into 47 amps current kick & heavy jerk to machine. motor was connected to mains through dol stater, which results heavy inrush current from mains stop operation also carried out through immediate application of brake, which was creating wibration to drum & equipment damage. overall frequent start-stop leads to wear & tear to machine and required maintainence, wasting considerable manpower.

PRESENT SYSTEM : Ac variable frequency drive with 100% dynamic facility for 10 hp ac ind motor coupled with drum.

BLOCK DIAGRAM :



MERRITS OF NEW SYSTEM :

1. Washing cycle is fully programmable through customised software which results into direct saving of energy due to auto shut-off of machine after complication of cloth washing.
2. Ac drive reduces current kick from 47 amps to 15 amps which results into reducing kva demand.
3. Electronics brake provides smooth stop as well as reduce jerk and mechanical maintainence to machine.
4. Due to variable speed operation system is flexible for diff. cloth washing.

Overall system saves considerable energy, reduce maintainence, wastage of manpower and increase life of machine.

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