

# APPLICATION CASE STUDY



DOC.NO. : AMTCS-15

<b>HOST ORGANISATION</b>	:	<b><u>M/S AURO WEAVING MILLS, BADDI.</u></b>
<b>INDUSTRY</b>	:	TEXTILE
<b>APPLICATION</b>	:	AIR JET LOOM
<b><u>OBJECTIVE</u></b>	:	To reduce high inrush current kick of 3500 amps & hence to reduce KVA demand which results the compressor operates on in installed Generator set which can be achieved by application of Electronics Soft-Starter.
<b><u>PREVIOUS SYSTEM</u></b>	:	Star-Delta starter directly coupled with 560 KW induction motor connected with centrifugal compressor load.
<b><u>PROBLEMS OBSERVED</u></b>	:	<ol style="list-style-type: none"><li>1. High starting current kick more than 3500 amps for then 5 to 15 seconds.</li><li>2. Frequent mechanical &amp; electrical break down of the system results into production loss, manpower &amp; energy loss.</li><li>3. Frequent tripping of Generator led to heavy production loss.</li><li>4. Operation of heavy compressor load led to other systems failure due to heavy voltage dip.</li></ol>
<b><u>PRESENT SYSTEM</u></b>	:	750 HP AMTECH make Electronics Soft Starter is directly connected to 760 HP AC Induction motor & motor is driving centrifugal compressor load.
<b><u>MERITS OF NEW SYSTEM</u></b>	:	<ol style="list-style-type: none"><li>1. The client is able to use the L.T.Generator set which results in to reduction in capital investment.</li><li>2. Reduce starting kick 3500 amps to 2000 amps.Which helps safe operation of other systems also.</li><li>3. Smooth starting of compressor led to reduction of mechanical and electrical maintainance of the system.</li><li>4. Motor protection with programming facility.</li></ol>
<b><u>ECONOMICAL ANALYSIS</u></b>	:	Finally conversion of new system with replacement of old system leads im provement in overall plant production efficiency. Low investment cost of Generator set (L.T) & hence results into electrical energy savings by reduc ing higher KVA demand.

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