

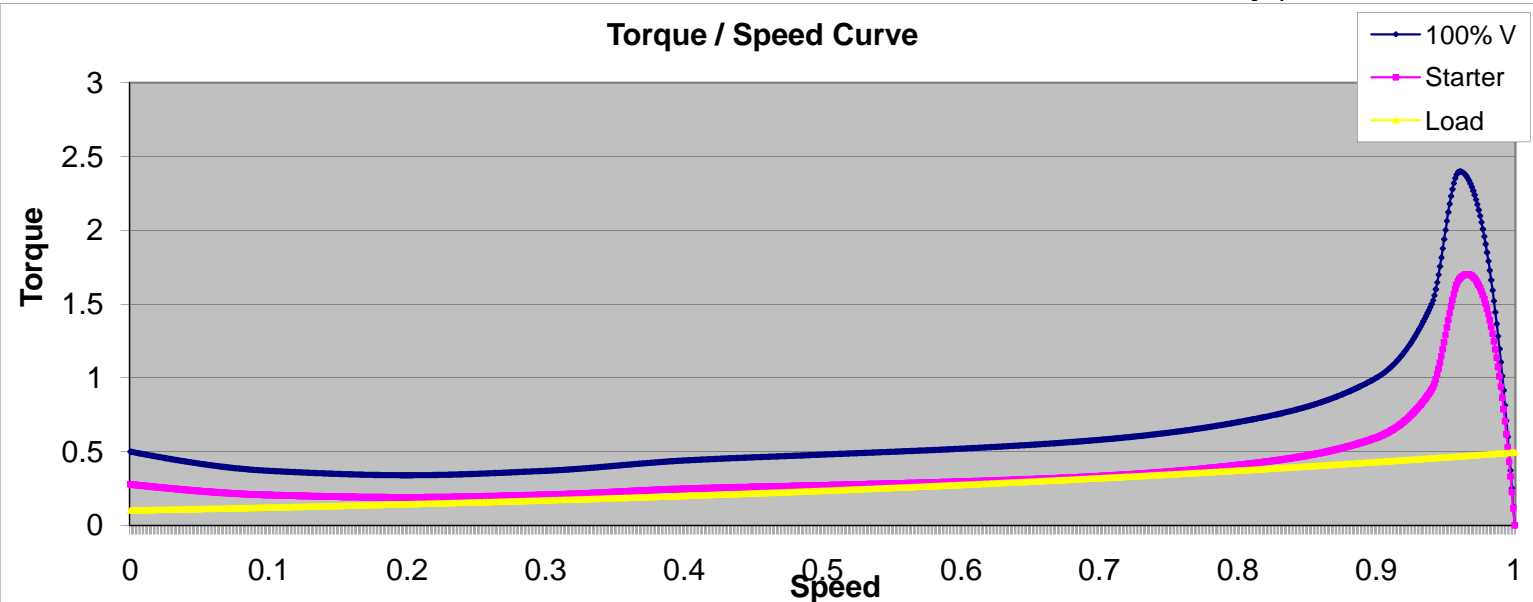
## Design Summary Report for 1850 KW, 11 KV Soft Starter

Date: 3-Aug-10

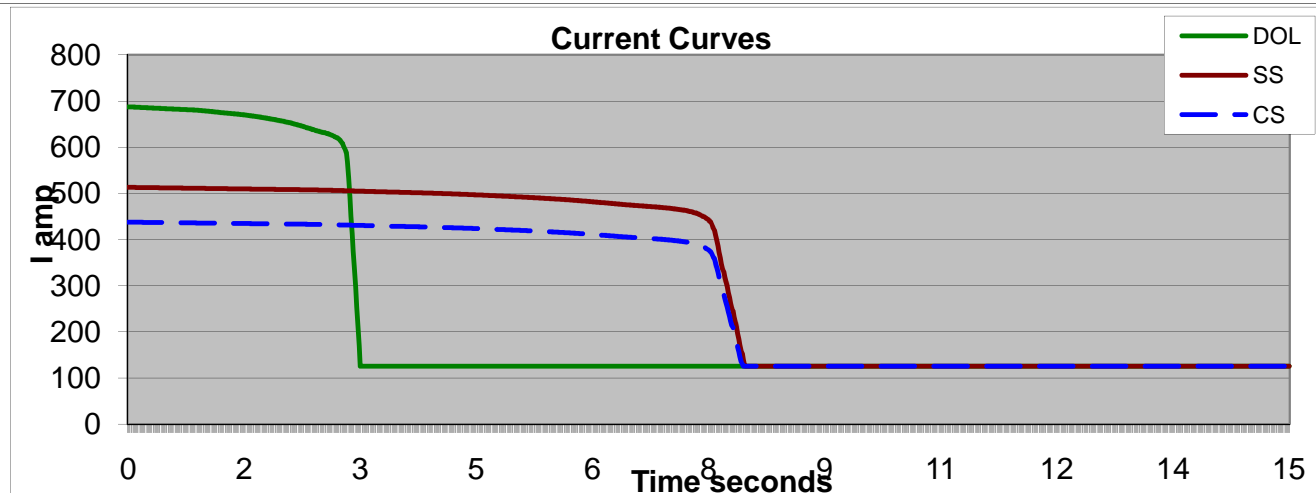
Customer: atlas  
Contact at JEPL: mihir@jayashree.co.in

### Note :-

Desired  $I_{st}$  is the current which the supply system should experience as load. If the motor required current [practical motor  $I_{st}$ ] is more than the desired supply system requirements, Capacitors can be used to balance the reactive component of the motor to achieve the desired  $I_{st}$  and to improve the power factor during starting.



**Motor KW:** 1850 KW  
**Motor KV:** 11 KV  
**Motor + Load GD<sup>2</sup>:** 16 Kg.m<sup>2</sup>  
**Motor rpm:** 2991  
**Motor  $I_{flc}$ :** 125 Amp  
**DOL Motor  $I_{st}$ :** 688 Amp  
**Desired  $I_{st}$ :** 437.5 Amp  
  
**Practical Motor  $I_{st}$ :** 513 Amp  
**Starting Time w/o SS:** 3 seconds  
**Starting Time with SS:** 8 seconds  
**Capacitor value(if used):** 1,438 RKVA



Actual results may vary. This information is generated with reference to the data supplied by the client, and Jayashree does not take responsibility to match the parameters derived in this sheet if the supplied data and actual equipment parameters do not match. [applicable Standards [IS 5553 (PART3)/IEC 289]]

**JAYASHREE**  
E L E C T R O N