



STARTING TORQUES FOR AXIAL FAN

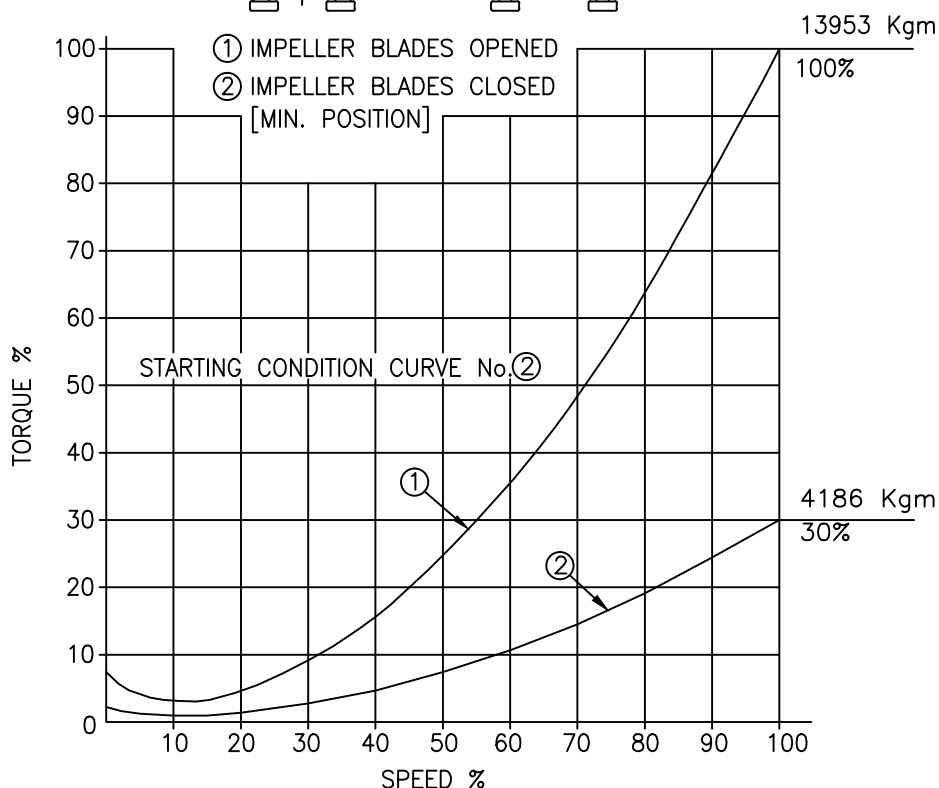
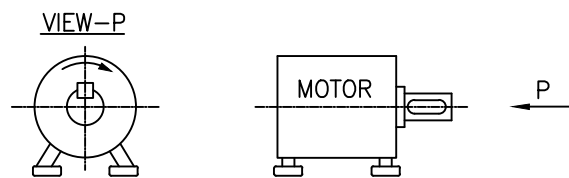
TYPE : SAF 40/25.6-2 $\triangle 01$

APPLICATION : INDUCED DRAFT FAN (COMBINED ID FAN) QUANTITY: 2 NOS/BOILER
PROJECT : TSGENCO/ YADADRI TPS-5X800 MW
CUSTOMER No. : R827-R831
POWER ABSORBED AT THE MOTOR COUPLING AT RATED OUTPUT ['P' MAX] : 10672 KW
RECOMMENDED MOTOR RATING : 11800 KW
FAN SPEED : 745 RPM
MOTOR SPEED : 745 RPM
TORQUE AT 'P' MAX. REFERRED TO THE MOTOR SPEED : 13953 Kgm
DENSITY OF THE MEDIUM HANDLED : 0.803 Kg/cubic meter
GD² REFERRED TO FAN SHAFT : 36000 Kg sq meter.

FOR COLD START

WITH AN INLET TEMPERATURE OF 27°C HAVING A DENSITY OF 1.157 Kg/cubic meter
THE TORQUE HAS TO BE MULTIPLIED BY A FACTOR OF 1.44

FAN IS DIRECTLY COUPLED WITH MOTOR BY SPACER COUPLING



NOTE : FAN OUTLET DAMPER IS KEPT CLOSED WHILE STARTING
MAX. ALLOWABLE TORQUE : 3.0 X RECOMMENDED MOTOR RATED TORQUE

ALTERED:A.KIRAN	CHECKED:UMASHANKAR	APPROVED:P.M.JAVID	ST CURVE REVISED AS PER REVISED CPT FROM TRICHY DUE TO CHANGE IN FAN SIZING AS PER MOEF NORMS	
DATE: 24.10.17	DATE: 24.10.17	DATE: 24.10.17		
DRAWN:A.KIRAN	CHECKED:UMASHANKAR	APPROVED:P.M.JAVID	DRG No.	REV
DATE: 24.10.17	DATE: 24.10.17	DATE: 24.10.17	4-00-103-32141	01