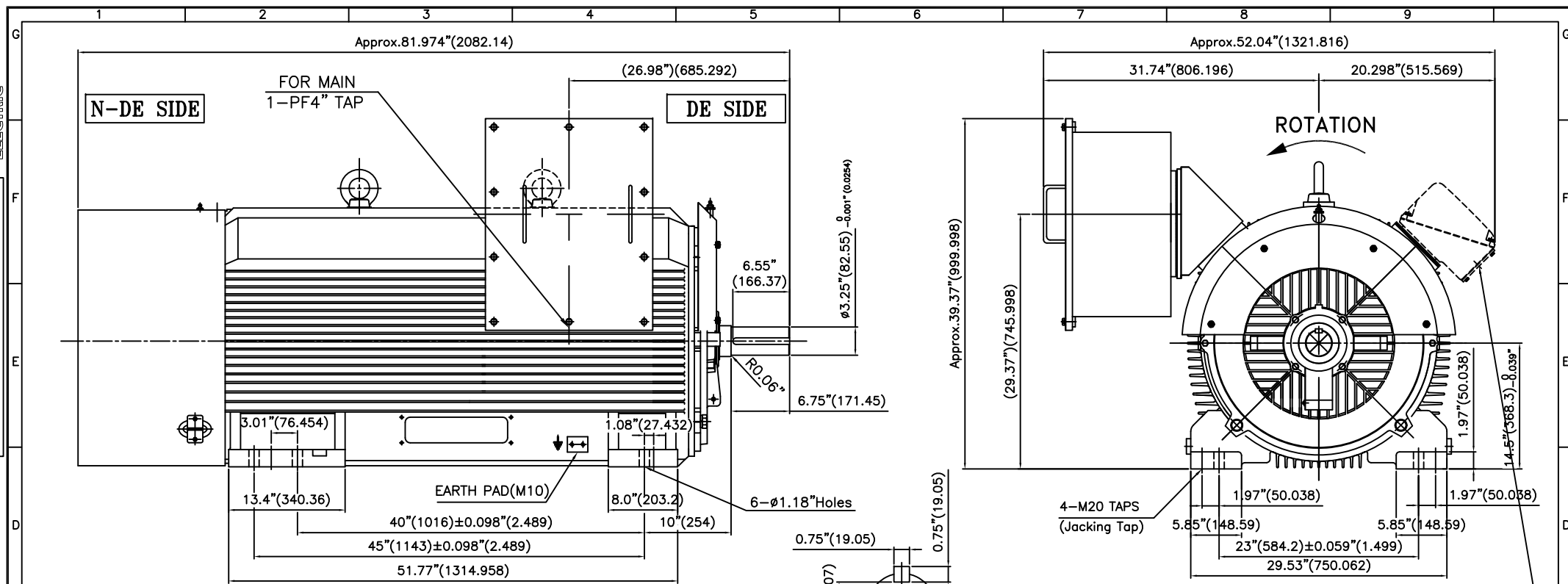


MODEL NUMBER	HSDE700-36-5812-IB		
HORSEPOWER	700		
RPM / POLES	3600 / 2		
VOLTAGE / PHASE	460 V / 3		
FRAME	5812		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	3570 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	768.4 A		
LOCKED ROTOR CURRENT	5533 A		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	95.8 %	89.0 %
	75 %	95.8 %	87.5 %
	50 %	95.8 %	81.5 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	1,030.1 lb.ft.	150 %	250 %
NEMA DESIGN			
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	-- lb.ft. <sup>2</sup>	121.8 lb.ft. <sup>2</sup>	
SOUND PRESSURE LEVEL ( No Load 1 M From Motor)	89 dB(A)		
NUMBER OF STARTS (Hot / Cold)	1 Hot / 2 Cold		
MAX. AMBIENT TEMPERATURE	40° C		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DRIVE-END BEARING	6316C3		
OPPOSITE DRIVE-END BEARING	6316C3-INSULATION		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1		
ROTATION	CCW from Drive End		
APPROXIMATE WEIGHT	6730 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
TEMPERATURE CODE	T3 Up To 45°C		
INVERTER RATING	10:1 VT at Full Load / 20:1 VT at 50% Load 2:1 CT at Full Load / 10:1 CT for 1 Hour Cycle		
SPECIFICATION - In Accordance With	NEMA, CSA		



CC038A



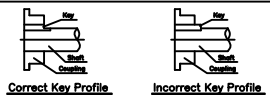


**TECHNICAL INFORMATION**

**1) BEARING & LUBRICANT LIST**

BEARING	Drive End	Non-Drive End
Bearing Type	6316C3	6316C3
Lubricant Type	GREASE	GREASE
Grease Type	Shell(Gadus S2 V100 2)	Shell(Gadus S2 V100 2)
Initial Charge Quantity	128 g	128 g
Mark-Up	Quantity	38 g
	Interval	2 MONTHS

The rotor is dynamically balanced with a half key mounted in the shaft extension; therefore, the coupling shall be balanced accordingly. And the coupling key shall be mounted correctly to prevent excessive vibration due to additional unbalance generated by incorrect key profile.



**THREE PHASE INDUCTION CAGE ROTOR MOTOR (TEFC)**

FRAME NO.	OUTPUT	POLES	VOLTAGE	FREQUENCY	MOUNTING	WEIGHT	BEARING NO.	
							D.E	N-D.E
5812	700 HP	2 P	460V	60 Hz	B3	6340 lb	6316C3	6316C3

**NOTE**

- 1) This motor is designed to be operated in arrow direction and non-reversible motor.
- 2) Bearing of N-DE SIDE is insulated to prevent bearing damage from shaft current.
- 3) To prevent the damage of other shaft connected to the motor, the coupling must be insulated.

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						

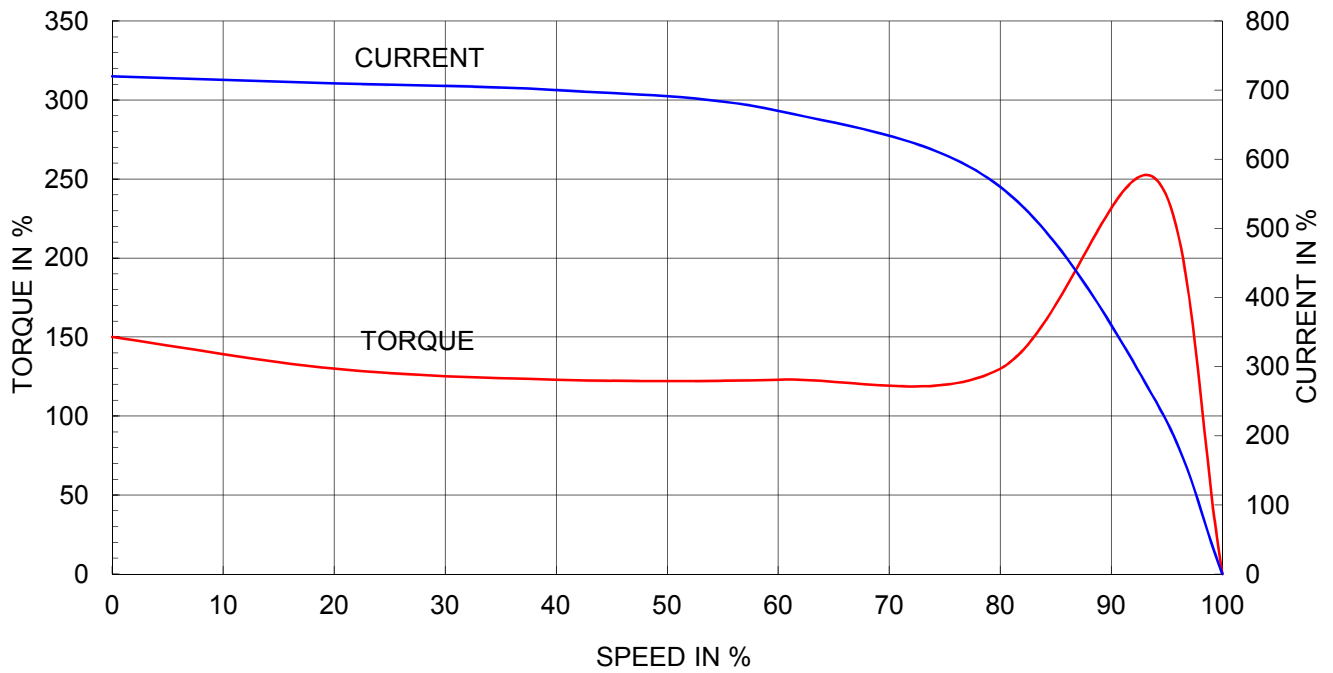
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	Fr.5812-2P	DWG SIZE	A3 (1:12)
CHKD BY	S.H.KIM	SCALE	1/12	TITLE			
CHKD BY	-----	PROJEC'N	3차법(3rd Angle)	OUTLINE			
DSND BY	Y.D.WON	DATE	2018.05.10	REF. NO	-	Sheet No.	of
DWG NO				LATER	Revision No.	0	



Type	:	PJP
Full Load Torque	:	1030.1 lb.ft
Motor moment of Inertia (J)	:	121.8 lb.ft <sup>2</sup>
Load moment of Inertia (J)	:	- lb.ft <sup>2</sup>

522 kW	700 HP	60 Hz	
2 P	Rated Speed	: 3570 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	614.7A	768.4A	1536.8A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

