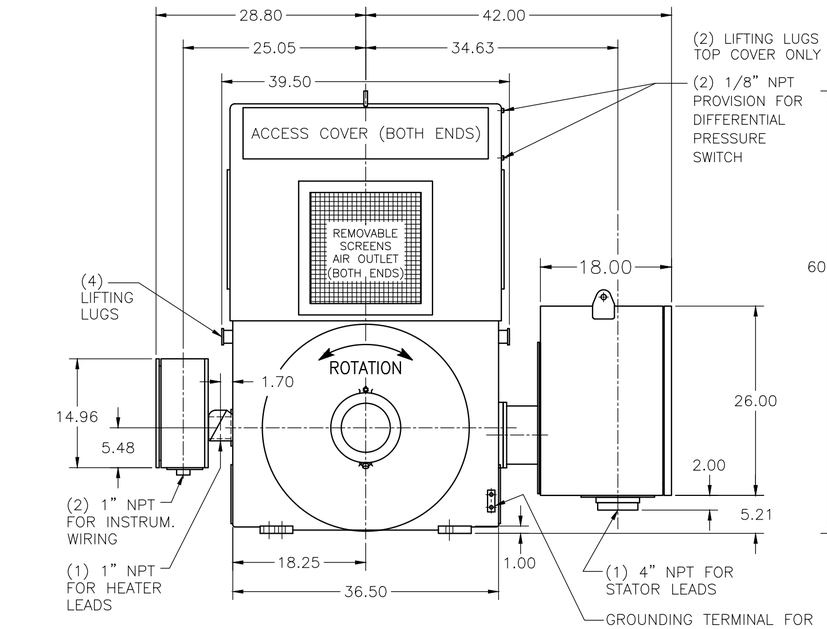
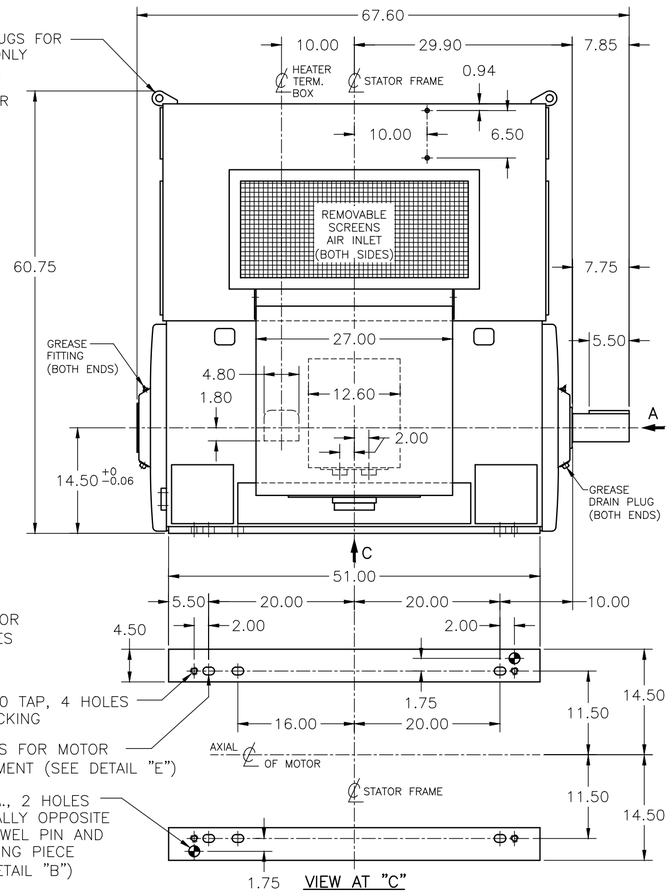
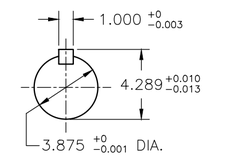
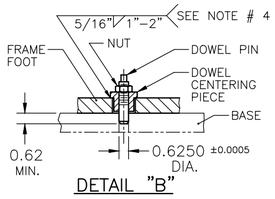


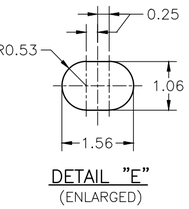




ENLARGED VIEW AT "A"



DETAIL "B"
(ENLARGED)



DETAIL "E"
(ENLARGED)

NOTES

1 – DIMENSIONS IN INCHES.

2 – OPPOSITE DRIVE END BEARING IS INSULATED AGAINST SHAFT CURRENTS. ANY INSTRUMENT INSERTED INTO THE BEARING MUST BE INSULATED.

3 – CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD OR FROM EITHER SIDE.

4 – AFTER FINISHING MOTOR INSTALLATION, ASSEMBLE DOWEL PIN AND CENTERING PIECE. WELD AS SHOWN.

5 – STRAIGHT PART OF SHAFT = 7.50 INCHES.

6 – LABYRINTH SEAL (INPROSEAL OR EQUIVALENT).

7 – COPPER BAR ROTOR CONSTRUCTION.

8 – MINIMUM BASE STIFFNESS IN ALL DIRECTIONS: 5.0×10^{6} lbf/in. THE VALUE IS THE MINIMUM BASE STIFFNESS RECOMMENDED TO ENSURE SUCCESSFUL OPERATION CONDITION. ANY VALUE BELOW THAT SHALL BE SENT TO GE FOR FURTHER ANALYSIS AND MAY IMPACT MACHINE OR BASE DESIGN.

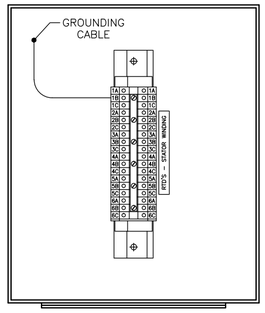
RATING

TYPE	K
FRAME	8210S/8211S
POLES	6
POWER	700 HP
SPEED	1190 rpm
VOLTAGE	4000 V / 2300 V
CURRENT	92.5 A / 161 A
FREQUENCY	60 Hz
SERVICE FACTOR	1.15
ENCLOSURE	WPII
BEARING – O.D.E.	ABMA 110BC03J – (SKF#6322)
BEARING – D.E.	ABMA 110BC03J – (SKF#6322)
LUBRICATION	SHELL ALVANIA RL3
ROTATION FACING O.D.E.	DUAL
NET WEIGHT	6400 lb ±10%
DATA SHEET	DS7820044

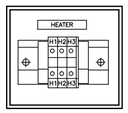
ACCESSORIES

- STATOR RTD'S: Pt 100 OHMS AT 0°C.
- HEATER: 440W – 120/240V – 1PH.
- GALVANIZED STEEL AIR FILTERS.
- PROVISION AIR DIFFERENTIAL PRESSURE SWITCH.

ACCESSORIES BOXES

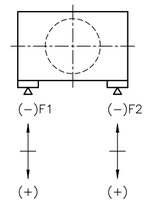


ACCESSORIES TERMINAL BOX



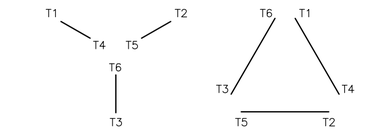
HEATER TERMINAL BOX

LOADS ON FOUNDATION



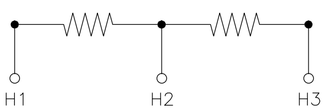
	UNITS IN lb			
	S. C. TORQUE		MAX. TORQUE	
	F1	F2	F1	F2
C.W.	22167	−15772	7419	−1024
C.C.W.	−15772	22167	−1024	7419

SCHEMATIC DIAGRAMS



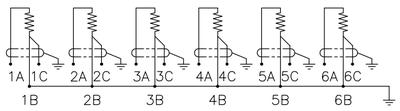
	VOLTS	L1	L2	L3	TOGETHER
Y	4000	T1	T2	T3	T4–T5–T6
Δ	2300	T1–T6	T2–T4	T3–T5	

STATOR CONNECTION



	LINES		
VOLTS	L1	L2	OPEN
120	H1 H3	H2	−−
240	H1	H3	H2

HEATER SCHEMATIC DIAGRAM



STATOR RTD'S SCHEMATIC DIAGRAM

CUSTOMER

ORIGINAL SHEET SIZE = A2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION UNLESS OTHERWISE INDICATED BY ARROWS DO NOT MEASURE OFF THIS DRAWING

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GE CLASSIFICATION ---

CUSTOMER EAST COAST ELECTRICAL EQUIPMENT COMPANY, INC

CUST ORDER No ----

CUST DWG No ----

PROJECT ORDER No 1011916

FUNCTION REF ---- LOCATION REF ----

EQUIPMENT REF ---- LANGUAGE EN

GE POWER CONVERSION

DRG EXPORT TAG: LICENSE NOT REQUIRED

DRG TYPE: MECHANICAL DESIGN - MECHANICAL PART

INITIAL SOURCE: BR

DRAWN BY: 212326082

DRAWN DATE:--

DRG TITLE: OUTLINE - INDUCTION MOTOR 7820044/45 K - 8211S - 6P - WPII

DRG No. D0021184

SHEET 1 OF 1

DRG REV 000