



PROJECT TITLE:	PETRO-CANADA HORIZON PROJECT
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VENDORS NAME:	Dresser-Rand
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DOCUMENT TITLE:	Installation Plan - Driver
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VENDORS DOCUMENT NO:	BOM-0FX-100-001
VENDORS REVISION NO:	7
DATE SUBMITTED	9/24/2008

PETRO-CANADA Supplier Document Review																				
Permission to proceed does not constitute acceptance or approval of Design Detail, Calculations, Analysis, Test Methods or Materials developed OR selected by SUPPLIER, and does NOT relieve SUPPLIER from FULL compliance with Contractual Obligations																				
<input type="checkbox"/> 1	Work May Proceed																			
<input checked="" type="checkbox"/> 2	Revise & Resubmit. Work may Proceed subject to incorporation of changes																			
<input type="checkbox"/> 3	Revise & Resubmit. Work may not Proceed																			
<input type="checkbox"/> 4	Review not required. Work may proceed																			
By:	<u>Marvin Ishmael</u> Date: <u>20th October 2008</u>																			
Discipline:	<u>MECHANICAL</u>																			
Equipment No.	<u>JMH-71011</u>																			
MR No. <table><tr><td>7</td><td>1</td><td>0</td><td>M</td><td>R</td><td>J</td><td>0</td><td>0</td><td>0</td><td>1</td></tr></table>		7	1	0	M	R	J	0	0	0	1									
7	1	0	M	R	J	0	0	0	1											
1017	<table><tr><td>V</td><td>P</td><td>B</td><td>0</td><td>2</td><td>7</td><td>1</td><td>0</td><td>J</td><td>0</td><td>1</td><td>A</td><td>C</td><td>0</td><td>0</td><td>0</td><td>9</td><td>0</td><td><input checked="" type="checkbox"/></td></tr></table>	V	P	B	0	2	7	1	0	J	0	1	A	C	0	0	0	9	0	<input checked="" type="checkbox"/>
V	P	B	0	2	7	1	0	J	0	1	A	C	0	0	0	9	0	<input checked="" type="checkbox"/>		

- NOTES:
1. MAIN TERMINAL BOX IS FREE STANDING AND MUST BE SUPPORTED FROM BELOW BY CUSTOMER.
  2. APPROXIMATE WEIGHT OF BOX: 1,100 LBS. (MAIN TERMINAL BOX IS NOT LEVEL WITH MOTOR FEET)
  3. THIS MOTOR IS SUITABLE FOR DIRECT CONNECTION ONLY.
  4. THIS MOTOR IS SUITABLE FOR ROTATION IN ONE DIRECTION. SEE DIRECTION ARROW ON THIS DRAWING AND ON MACHINE. OPERATION IN WRONG DIRECTION CAN CAUSE MACHINE OVERHEATING.
  5. BOTH BEARINGS ARE INSULATED. INSULATE ANY CONNECTIONS TO THESE BEARINGS. GROUND STRAP ON DRIVE END MUST BE CONNECTED WHILE MOTOR IS IN OPERATION.
  6. FOR DIRECT CONNECTION, SHIMS MAY BE NECESSARY UNDER MOTOR FEET. STAINLESS STEEL SHIMS SUPPLIED.
  7. FLOOD LUBRICATION DATA: 1.00 GPM PER BEARING AT 20 PSIG
  8. .102 DIA. ORIFICE SUPPLIED AT EACH BEARING TO REGULATE OIL FLOW.
  9. OIL FROM THE FLOOD LUBRICATION SYSTEM MUST BE SUPPLIED TO THE BEARINGS AT A TEMPERATURE NOT LESS THAN 32°F (0°C) BEFORE THE MOTOR CAN BE STARTED.

MOTOR DATA:

ROTOR END FLOAT = .50"  
END FLOAT OF LTD END FLOAT CPLG = .19"  
OIL CAPACITY PER BEARING = 6.0 QT.  
USE A HIGH QUALITY TURBINE OIL HAVING A VISCOSITY OF 140 TO 160 SUS @ 38°C (100°F) (ISO VG 32)  
MAXIMUM DIA. OF SHAFT LATHES CENTERS = 1.39"  
FOR ALIGNMENT REQUIREMENTS SEE THE INSTRUCTION MANUAL.

CHANGED # TO LBS. IN NOTES  
1 AND 2  
EFF. FUT. ESO

07 09-22-08 JRS

ADDED ADDITIONAL TAG NUMBERS  
TO TABLE AND REVISED TAG # &  
DESCRIPTIONS  
EFF. FUT. ESO

06 08-20-08 KC

ADDED TAG NUMBERS CHART  
ADDED ALARM TRIP DATA  
ADDED NOTE FOR DRIVE END  
DIRECTION  
ADDED TERMINAL BOX DRAIN NOTE

EFF. FUT. ESO

04 07-23-08 DSC

REVISE STATOR RTD'S TO 3/PHASE

EFF. FUT. ESO

05 08-15-08 KC

00 04-30-08

THIS IS A CAD DRAWING NO  
MANUAL CHANGES ARE ALLOWED  
MOTOR CONNECTION DIAGRAM  
WAS 063. ADDED KEYWAY  
DIMENSION.

EFF. FUT. ESO.

01 05-05-08 MEC

C.G. ADDED.

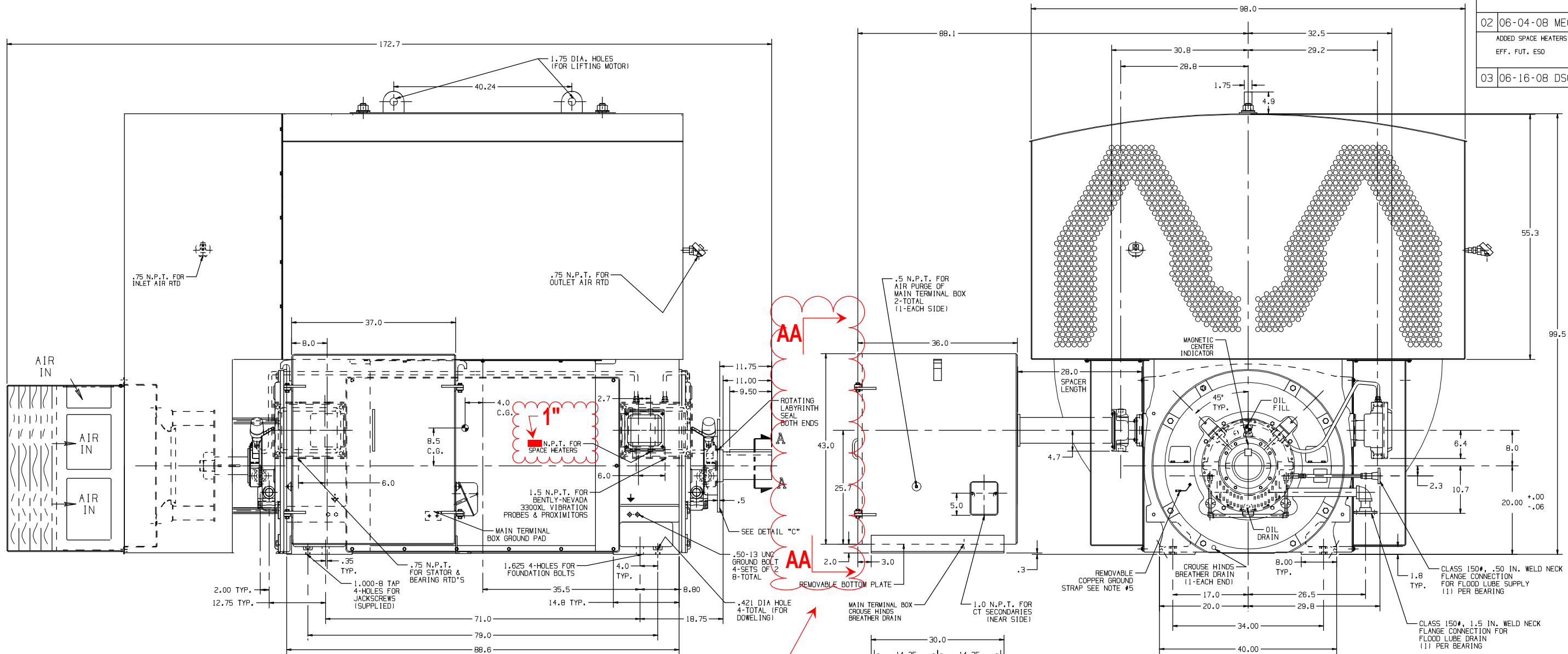
EFF. FUT. ESO

02 06-04-08 MEC

ADDED SPACE HEATERS

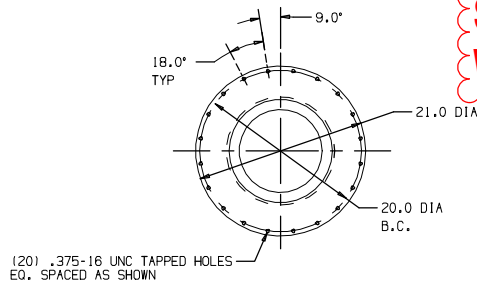
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03 06-16-08 DSC

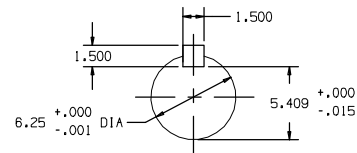


SHOW THE FACE VIEW OF THE MAIN TERMINAL BOX  
WITH THE INFRA-RED WINDOW ON IT

Provide a Project  
specific Title block.



DETAIL OF COUPLING  
GUARD ADAPTER  
PER DRESSER RAND  
DWG. NO. 453-575-601  
CPLG SIZE 11-13.5



SECTION A-A

SIEMENS		CERTIFIED PRINT	
CUSTOMER		CUSTOMER INITIATED CHANGES MAY AFFECT PRICE AND DELIVERY PRODUCTION WILL PROCEED ON THE BASIS OF THIS DRAWING	
DRESSER RAND			
P.O.#		149197	
S.O.#		1396759-010	
HP	RPM	FRAME	TYPE
3550	1800	8012	CAZ
			VOLTS
			4000
			PH
			3
			HZ
			60

1396759-010

CONFIDENTIAL-PROPERTY OF  
**Siemens Energy & Automation, Inc.**  
POWER CONVERSION DIVISION  
NORWOOD PLANT

NAME

D-R CT #33125  
BOM-OFX-100-001 (PG 1 OF 2)

OUTLINE

STANDARD SHAFT EXTENSION 6.250 X 11.00

JMS 04-30-08

ESO

SIMILAR TO  
87-401-724-008

SCALE  
.091

SHEET  
1-2

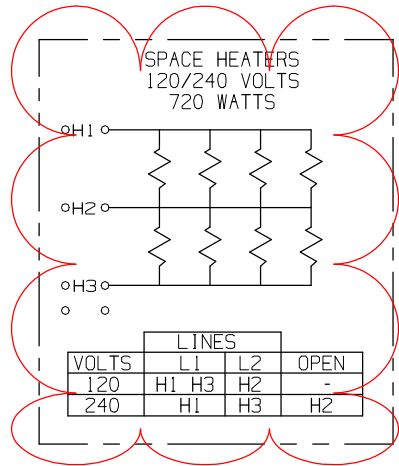
4-POLE

CAZ 8012

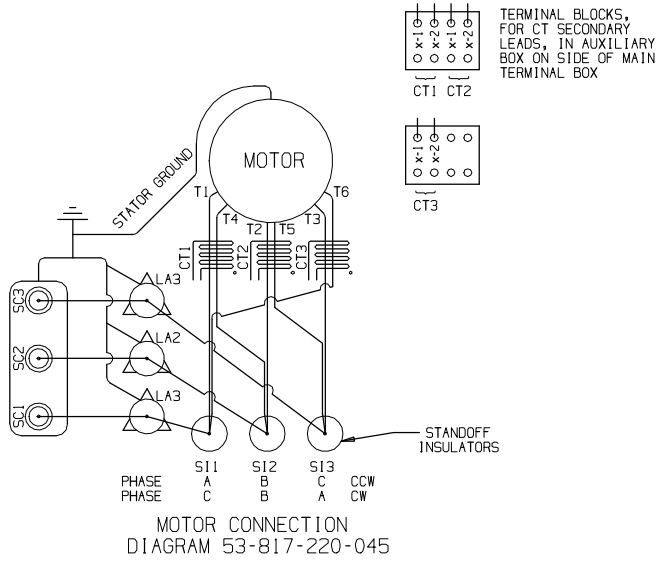
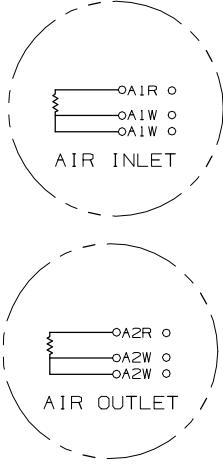
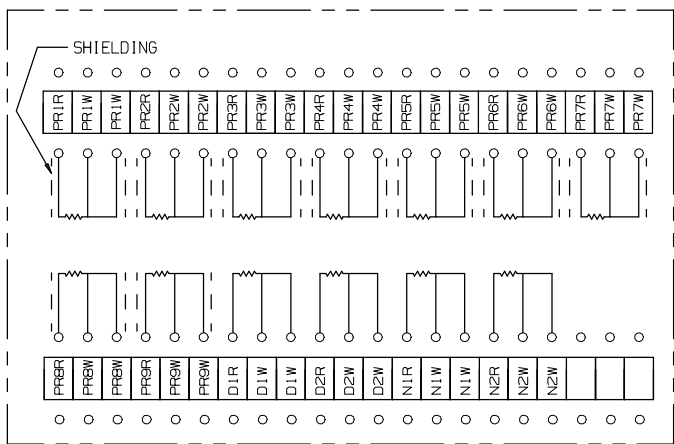
PART NO.  
87-401-724-010

ISSUE  
07

87-401-724-010



TERMINAL BOARD ARRANGEMENT IN AUXILIARY BOX & CONDULET HEADS FOR SPACE HEATERS AND 100-OHM STATOR, BEARING, & AIR RTD'S

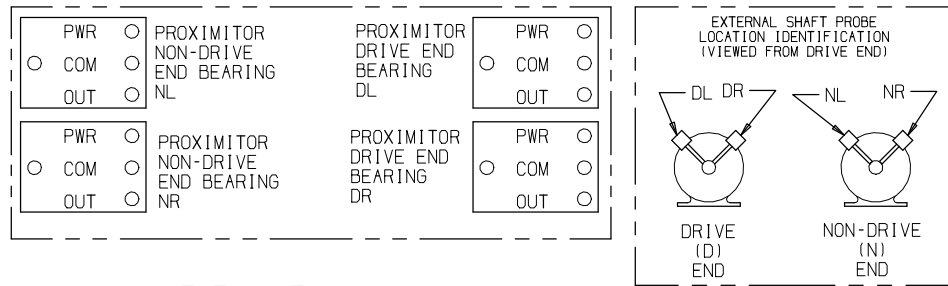


ADDED TAG NUMBERS CHART ADDED ALARM TRIP DATA ADDED NOTE FOR DRIVE END DIRECTION EFF. FUT. ESO	00 04-30-08
04 07-23-08 DSC	THIS IS A CAD DRAWING NO MANUAL CHANGES ARE ALLOWED MOTOR CONNECTION DIAGRAM WAS 063. ADDED KEYWAY DIMENSION. EFF. FUT. ESO.
REVISE STATOR RTD'S TO 3/PHASE EFF. FUT. ESO	01 05-05-08 MEC
05 08-15-08 KC	SEE SHEET 1. EFF. FUT. ESO
ADDED ADDITIONAL TAG NUMBERS TO TABLE AND REVISED TAG# & DESCRIPTIONS EFF. FUT. ESO	02 06-04-08 MEC
SEE PAGE 1 EFF. FUT. ESO	ADDED SPACE HEATER SCHEMATIC EFF. FUT. ESO
06 08-20-08 KC	03 06-16-08 DSC
07 09-22-08 JRS	

MOTOR MAIN TERMINAL BOX SPACE HEATER AND MOTOR SPACE HEATER SHALL BE PREWIRED TOGETHER SINCE THEY ARE FED FROM THE SAME BREAKER. DOES THIS 720W REPRESENT BOTH?

PROVIDE AND IDENTIFY KEY PHASOR PROBE(S) AND PROXIMITOR(S)

DESCRIPTION	SIEMENS CONVENTION	TAG NUMBER
MOTOR DRIVE END RADIAL "X" VIBRATION PROBE	EXTERNAL SHAFT PROBE DRIVE END BEARING DR	VE713130A
MOTOR DRIVE END RADIAL "Y" VIBRATION PROBE	EXTERNAL SHAFT PROBE DRIVE END BEARING DL	VE713130B
MOTOR NON DRIVE END RADIAL "X" VIBRATION PROBE	EXTERNAL SHAFT PROBE NON DRIVE END BEARING NR	VE713131A
MOTOR NON DRIVE END RADIAL "Y" VIBRATION PROBE	EXTERNAL SHAFT PROBE NON DRIVE END BEARING NL	VE713131B
MOTOR DRIVE END RADIAL "X" VIBRATION PROXIMITOR	PROXIMITOR DRIVE END BEARING DR	VT713130A
MOTOR DRIVE END RADIAL "Y" VIBRATION PROXIMITOR	PROXIMITOR DRIVE END BEARING DL	VT713130B
MOTOR NON DRIVE END RADIAL "X" VIBRATION PROXIMITOR	PROXIMITOR NON DRIVE END BEARING NR	VT713131A
MOTOR NON DRIVE END RADIAL "Y" VIBRATION PROXIMITOR	PROXIMITOR NON DRIVE END BEARING NL	VT713131B
MOTOR DRIVE END JOURNAL BEARING TEMPERATURE	DRIVE END BEARING RTDS D1 D2	TE713230A TE713230B
MOTOR NON DRIVE END JOURNAL BEARING TEMPERATURE	NON DRIVE END BEARING RTDS N1 N2	TE713231A TE713231B
MOTOR STATOR PHASE 1 TEMPERATURE	STATOR RTD PR1	TE713500
MOTOR STATOR PHASE 1 TEMPERATURE (SPARE)	STATOR RTD PR4	TE713503
MOTOR STATOR PHASE 1 TEMPERATURE (SPARE)	STATOR RTD PR7	TE713506
MOTOR STATOR PHASE 2 TEMPERATURE	STATOR RTD PR2	TE713501
MOTOR STATOR PHASE 2 TEMPERATURE (SPARE)	STATOR RTD PR5	TE713504
MOTOR STATOR PHASE 2 TEMPERATURE (SPARE)	STATOR RTD PR8	TE713507
MOTOR STATOR PHASE 3 TEMPERATURE	STATOR RTD PR3	TE713502
MOTOR STATOR PHASE 3 TEMPERATURE (SPARE)	STATOR RTD PR6	TE713505
MOTOR STATOR PHASE 3 TEMPERATURE (SPARE)	STATOR RTD PR9	TE713508
MOTOR COOLING AIR INLET TEMPERATURE	AIR INLET A1	TE713505B
MOTOR COOLING AIR OUTLET TEMPERATURE	AIR OUTLET A2	TE713508B



STATOR RTD SLOT LOCATION

	SLOT NO.	PHASE
PR1	1	A
PR2	9	B
PR3	17	C
PR4	25	A
PR5	33	B
PR6	41	C
PR7	49	A
PR8	57	B
PR9	65	C

SLOT #1 IS IN 12 O'CLOCK POSITION. SLOTS COUNTED CLOCKWISE FACING CONN. END

RTD ALARM/SHUTDOWN DATA		
	ALARM	SHUTDOWN
STATOR	155°C	170°C
BEARING	100°C	105°C

SIEMENS CERTIFIED PRINT CUSTOMER INITIATED CHANGES MAY AFFECT PRICE AND DELIVERY PRODUCTION WILL PROCEED ON THE BASIS OF THIS DRAWING		1396759-010		D-R CT #33125 BOM-OFX-100-001 (PG 2 OF 2)	
CUSTOMER DRESSER RAND		CONFIDENTIAL-PROPERTY OF Siemens Energy & Automation, Inc. POWER CONVERSION DIVISION NORWOOD PLANT		NAME OUTLINE	
P.O.# 149197		S.O.# 1396759-010		STANDARD SHAFT EXTENSION 6.250 X 11.00	
HP 3550		RPM 1800		FRAME 8012	
TYPE CAZ		VOLTS 4000		PH 3	
HZ 60		DR JMS 04-30-08		SIMILAR TO 87-401-724-008	
SCALE ESD		SHEET 2-2		PART NO. 87-401-724-010	
DP		ISSUE 07			

87-401-724-010