

Product Information Packet

January 12, 2017

Data shown is for the current revision model #. Ensure your nameplate model # matches.

Model Number:	5KS513XAA232A
Catalog Number:	Q8000
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	239C6C00FT

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	235A3027WN	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	235A3027NA		

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Marks:

MODEL NUMBER:	5KS513XAA232A	Estimated Weight:	6917 Lbs
Outline Drawing:	239C6C00FT	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG2	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	50BD1203F	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5013S	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	500HP 370KW	Guaranteed Efficiency:	95.0
RPM:	1785	3/4 Load Efficiency:	96.6
Voltage:	2300/4000	KVA Code:	G
Hertz:	60	Max KVAR:	94.1
Amps - FL:	109.2/62.8	Power Factor:	89.5
Service Factor:	1.15	Bearing - DE:	6320ZC3
Alt Service Factor:	--	Bearing - ODE:	6320ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 TSTAT HTR LDS HE1-HE2 115V 200W
 DE BRG 100BC03XP3, ODE BRG 100BC03XP3
 MAXIMUM EXPOSED INTERNAL AND EXTERNAL SURFACE
 TEMPERATURES DO NOT EXCEED 200C UNDER USUAL
 SERVICE CONDITIONS AT 1.0SF
 MAXIMUM SPACE HEATER SURFACE TEMPERATURE FOR
 NORMAL OPERATION AT RATED CONDITIONS 160C
 STAMP NP249A5499AP AS BELOW:
 MODEL:5KS513XAA232A S/N: XXX
 EX NA IIC T3 GC CSA.09.2216219
 CLASS I, ZONE 2, AEX NA IIC T3
 CLASS I, DIV 2, GROUPS A, B, C, D T3
 -25C <= TAMB <= 40C
 FOR DIRECT COUPLED LOAD ONLY
 CUSTOM POLYSEAL

Additional Information:

4P - S EXTN
 PAINTED FRAME ID & SHAFT, FAN COVER INSIDE &
 ODE E/S OUTSIDE
 2500 CU IN - 2(4.00" NPT)
 INPRO SEAL BOTH ENDS
 OIL RESISTANT SLEEVING ON LEADS
 .0015" TIR SHAFT RUNOUT
 ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
 REPORT INCLUDED IN C/B

COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
RABBETS AND PLUG THREADS.
100 OHM WINDING RTD LEADS TO AUX C/BOX OPP MAIN C/BOX
SUGGESTED WINDING RTD SETTINGS
ALARM 165C TRIP 175C
115V TSTAT CTRLD HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX
SPACE HEATER CAUTION NAMEPLATE
BEARING RTD 100 OHM ON BOTH ENDS
SUGGESTED BEARING RTD SETTINGS
ALARM 115C TRIP 125C
NEMA TYPE GRD PAD
F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 50BD1203F

Marks:

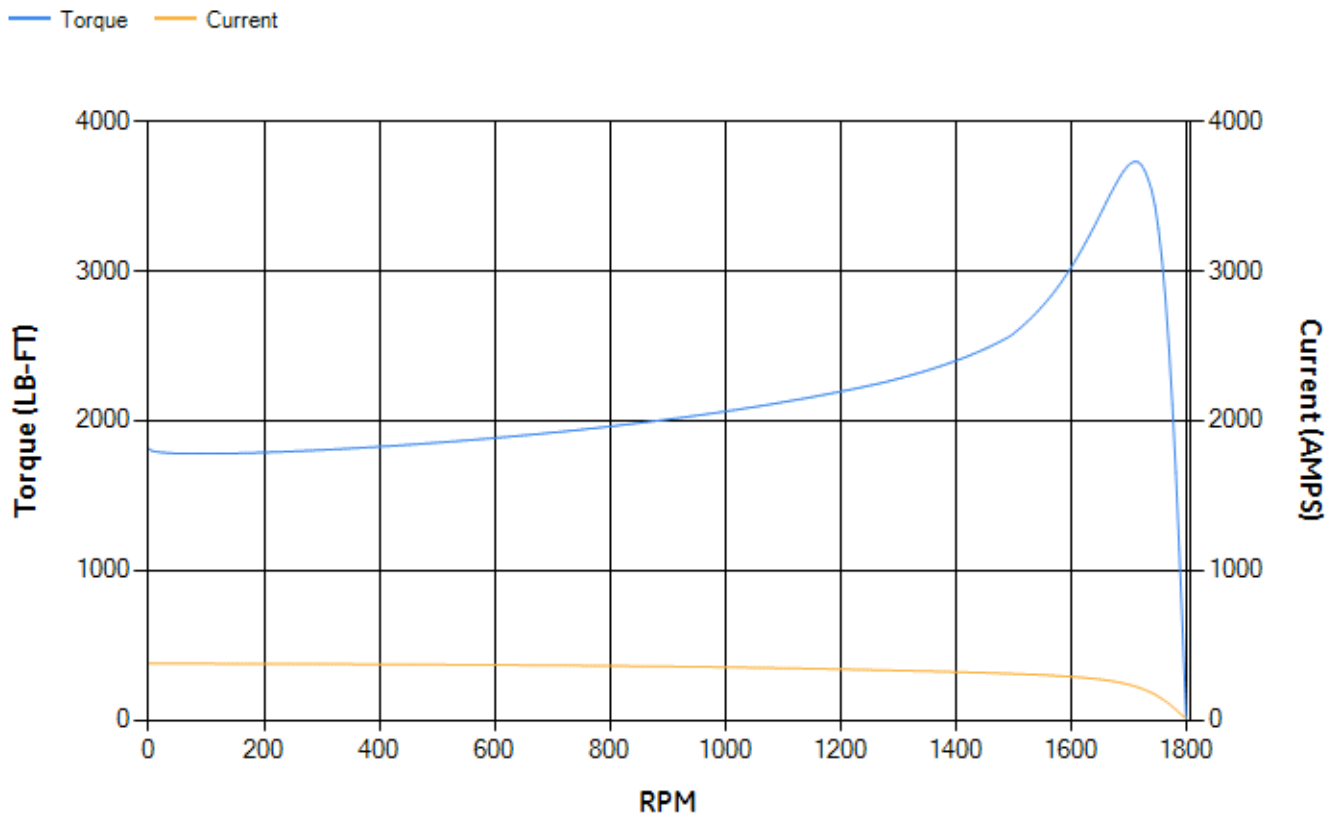
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96.14	96.3	96.69	96.64	96.36	94.52	0.00
% PF	89.7	89.83	89.72	88.3	83.36	66.08	4.55
AMPS	78.01	71.54	62.08	47.3	33.5	21.54	15.09

TORQ(FL)#FT	1471.77	TORQ(LR)%FL	123.16	TORQ(BD)%FL	253.34
AMPS(LR)	377.09	PF AT START	0.25		

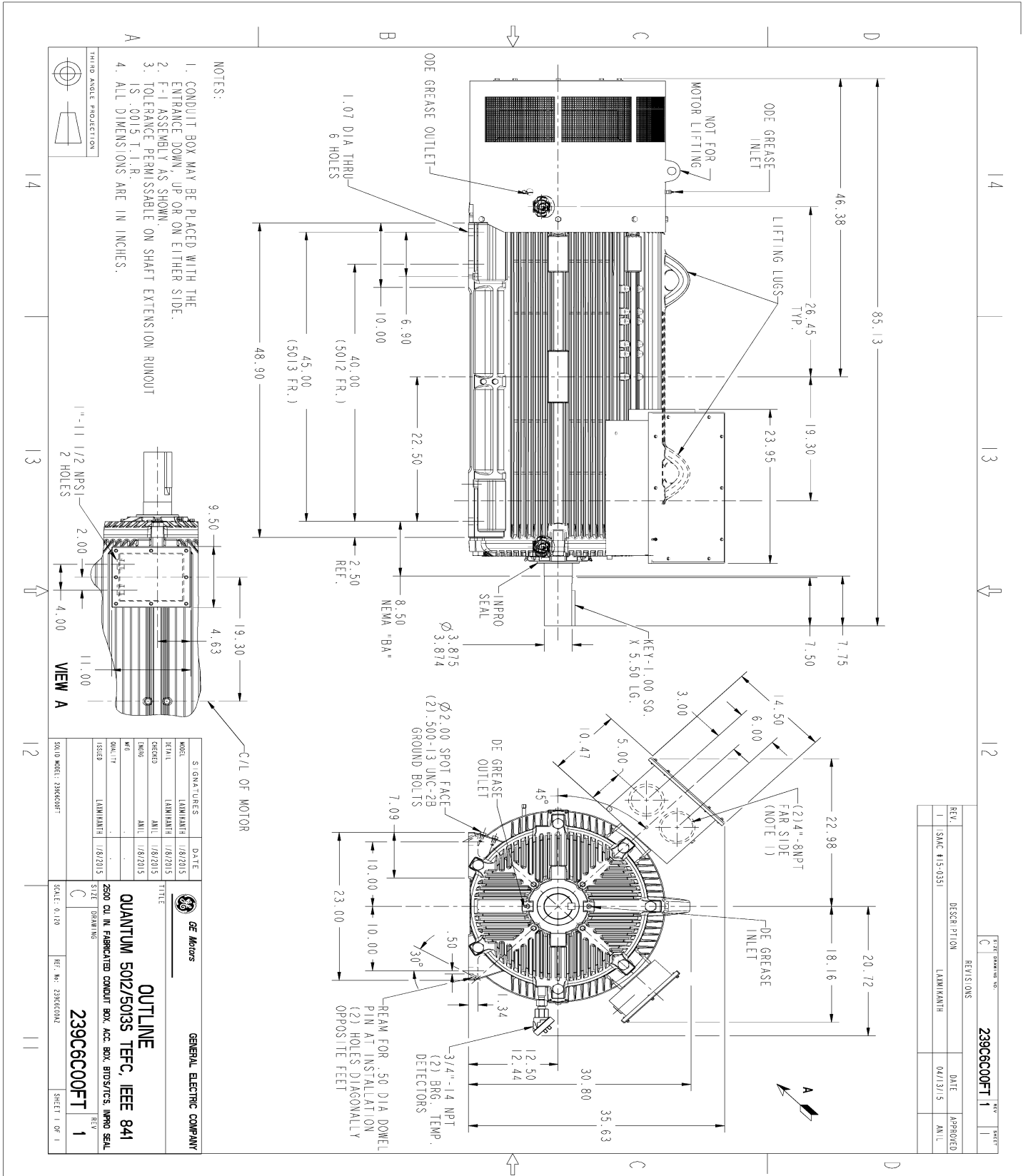
This motor is capable of two cold or one hot start with a maximum connected load inertia of 15889 Lb-Ft Sq (668.93 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 56 seconds. Safe stall time at 100% voltage is 108 seconds cold, 67 seconds hot. Rotor inertia is 263.02 Lb-Ft Sq (11.07 Kg-meter Sq).

Open Circuit A-C:	1.199	Short Circuit D-C:	0.045
Short Circuit A-C:	0.043	X/R Ratio:	17.108
Stator Slots:	72	Rotor Slots:	58

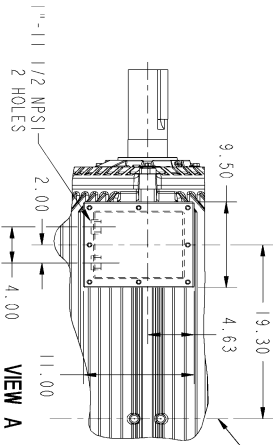
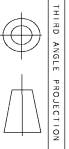
Speed Torque Current Curve (First Connection, First Speed)



Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 2. F-1 ASSEMBLY AS SHOWN.
 3. TOLERANCE PERMISSABLE ON SHAFT EXTENSION RUNOUT IS .0015 T.I.R.
 4. ALL DIMENSIONS ARE IN INCHES.

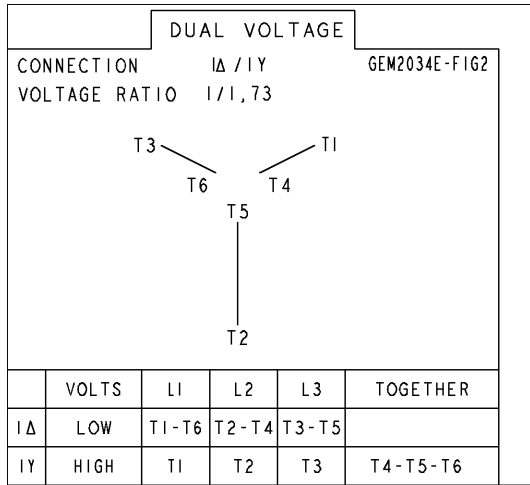


REV. 1		DATE APPROVED	
1	SMAC #15-0351	LAMIKANTH	04/13/15
REV. 2		DATE APPROVED	
2	SMAC #15-0351	LAMIKANTH	04/13/15

MODEL	LAMIKANTH	DATE	1/8/2015
REV. 1	LAMIKANTH	DATE	1/8/2015
ORDER	ANIL	DATE	1/8/2015
DESIGN	ANIL	DATE	1/8/2015
W/E			
DRAWN			
ISSUED	LAMIKANTH	DATE	1/8/2015
SIZE	C	DRAWING	
2500 CU. IN. PARALLELED CONDUIT BOX ACC. BOX, BTD/S/T/S, IMPRO SEAL			
GENERAL ELECTRIC COMPANY			
QUANTUM OUTLINE			
239C6C00FT 1			
SCALE: 0.120			
REF. NO. 239C6C00FT			
SHEET 1 OF 1			

Marks:

Connection Diagram
GEM2034E-FIG2



Heater Connection
3027JE-1C



SHEET

REV

235A3027WN

SIZE DRAWING NO. A

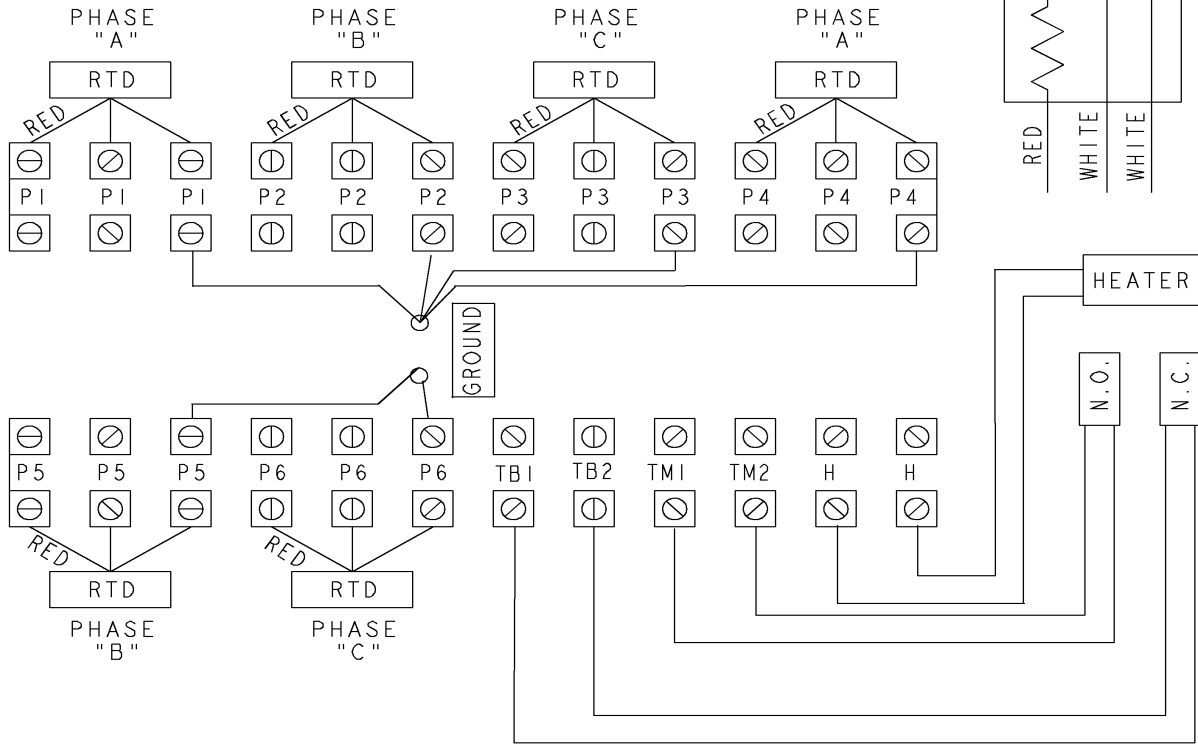
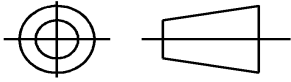
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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

THIRD ANGLE PROJECTION



- NOTE 1: TERMINAL LABELS ARE PROVIDED FOR ACCESSORIES THAT MAY OR MAY NOT BE INCLUDED WITH THE MOTOR.
- NOTE 2: SPARE RTDS (P7 & P8) FURNISHED IN CASE OF FAILURE IN OTHER RTDS (P1-P6). PHASE LOCATION WILL DEPEND UPON NUMBER OF POLES WINDING CONFIGURATION.
- NOTE 3: IT IS RECOMMENDED THAT RTDS BE GROUNDED AT EITHER THE MACHINE OR CONNECTED TO A GROUNDED CONTROL CIRCUIT. FOR PROPER OPERATION DO NOT GROUND AT THE MACHINE IF CONNECTED TO A GROUND CIRCUIT AT THE CONTROL.

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
APPLIED PRACTICES	MODEL	
DIMENSIONS ARE IN INCHES	DETAIL VIVEK	07/19/13
TOLERANCE ON:	CHECKED VIJAY	07/19/13
1 PL DECIMALS ± 0.1	ENGRG	
2 PL DECIMALS ± 0.02	MFG	
3 PL DECIMALS ± 0.005	QUALITY	
ANGLES ± 0.5	ISSUED VIVEK	07/19/13
FRACTIONS ±		
FINISH ✓		
MATERIAL	SOLID MODEL: MODEL NAME	

GE Motors GENERAL ELECTRIC COMPANY

TITLE **CONNECTION DIAGRAM**

WINDING RTD'S & T'STATS & HEATERS

SIZE DRAWING **235A3027WN** REV **0**

SCALE: NA SHEET 1 of 1

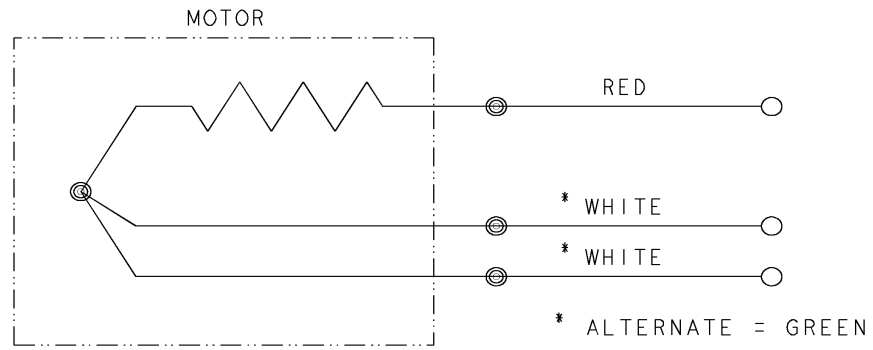


REV SH 1 1	THIRD ANGLE PROJECTION		REVISIONS		
		REV	DESCRIPTION	DATE	APPROVED
		1	ISAAC #12-1124	HARI	11/19/12

SIZE DWG NO 235A3027NA
 A

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BEARING RTDS



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± ANGLES ± FRACTIONS ± MATERIAL: APPLIED PRACTICES:	SIGNATURES	DATE	Fort Wayne, Indiana <h3 style="text-align: center;">CONNECTION DIAGRAM</h3> BEARING RTDS	
	DRAWN D.E. BAIR	12/16/92		
	CHECKED D.E. BAIR	12/16/92		
	ENGRG K. DESAI	12/16/92		
	ISSUED D.E. BAIR	12/16/92	SIZE	FSCM NO
	CAD NO. F500:235A3027NA		A	
			SCALE	DWG NO
			1/1	235A3027NA
				SHEET
				1 OF 1

DISTR TO



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E5202AC1	115E5202AD1
Bearing	235A2523AF03	235A2523AF03
Slinger/Inproseal	235A4575GS9	235A4575GS9

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	148C8073AA2
Fan Cover	119D3661AA3

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9098AF-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	