

Product Information Packet

January 12, 2017

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

Model Number:	5KS449SAG224A
Catalog Number:	E9523
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	225B6500HW

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	235A3027RY	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS449SAG224A	Estimated Weight:	2490 Lbs
Outline Drawing:	225B6500HW	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	49ED1014E	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	XX
Frame:	449T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.0 %
Output Power:	125HP 92.5KW	Guaranteed Efficiency:	94.5
RPM:	1780	3/4 Load Efficiency:	95.0
Voltage:	2300	KVA Code:	G
Hertz:	60	Max KVAR:	34.7
Amps - FL:	28.8	Power Factor:	85.5
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	XX	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

MAX INT AND EXT SURFACE TEMP FOR NORM OPER
 AT RATED COND 200 DEG C
 VIBRATION LIMIT = 0.055 IPS
 GREASE POLYREX EM
 TEMP CONT HTR LDS H 115V 125W
 STAMP NP249A5564P009 AS FOLLOWS:
 MAXIMUM SPACE HEATER SURFACE
 TEMPERATURE FOR NORMAL OPERATION
 AT RATED CONDITIONS 160 DEG C

Additional Information:

4 POLE, T SHAFT EXTN
 FORMED COIL
 TEMP CONTRL 115V HEATER LEADS TO ACC BOX
 100 OHM WINDING RTD LEADS TO ACC BOX
 700 Cu. In. CBOX

Performance Characteristics

1st Winding 1st Connection

Design: 49ED1014E

Marks:

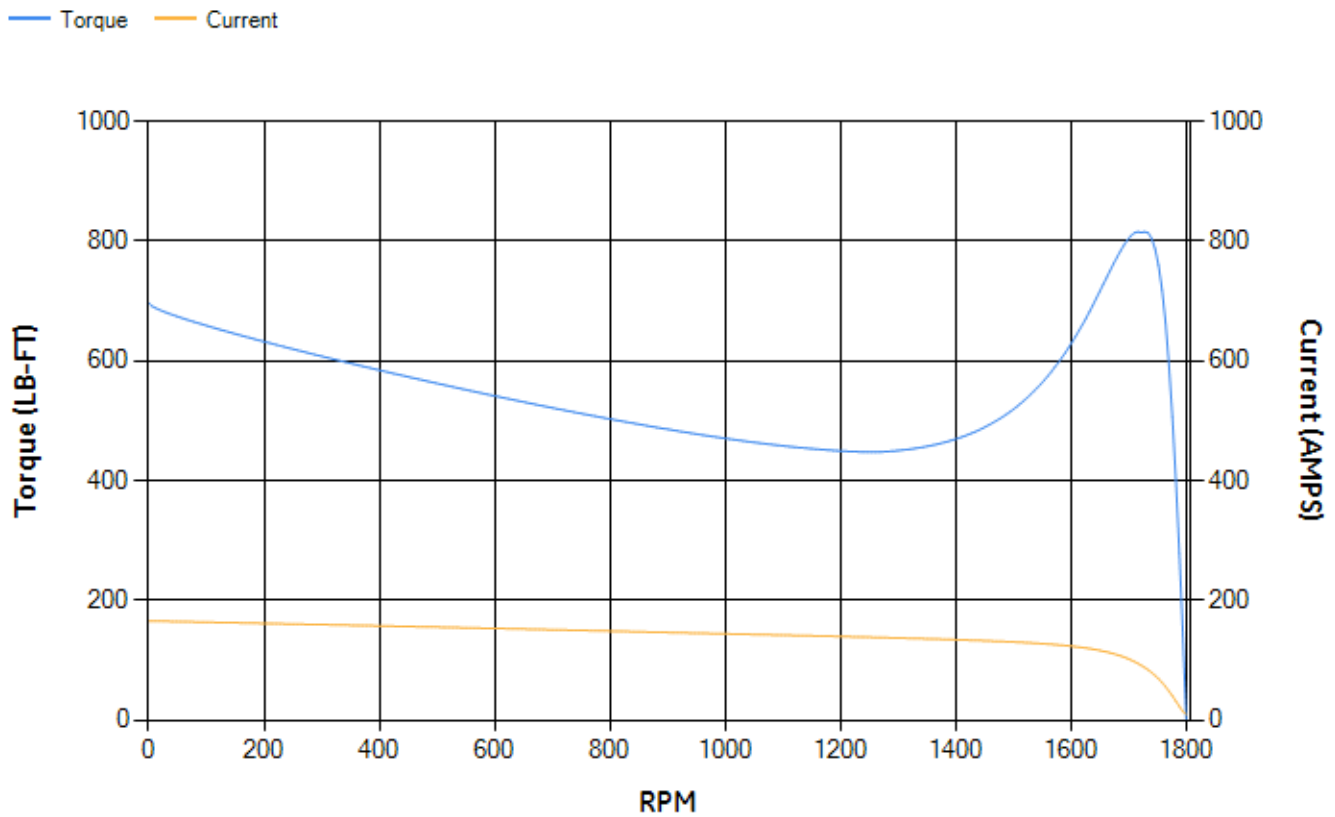
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.43	94.63	95.06	94.95	94.34	91.24	0.00
% PF	86.18	86.07	85.43	82.5	74.7	53.76	5.12
AMPS	35.94	33.04	28.81	22.4	16.6	11.93	9.64

TORQ(FL)#FT	368.17	TORQ(LR)%FL	189.24	TORQ(BD)%FL	220.97
AMPS(LR)	165.41	PF AT START	0.33		

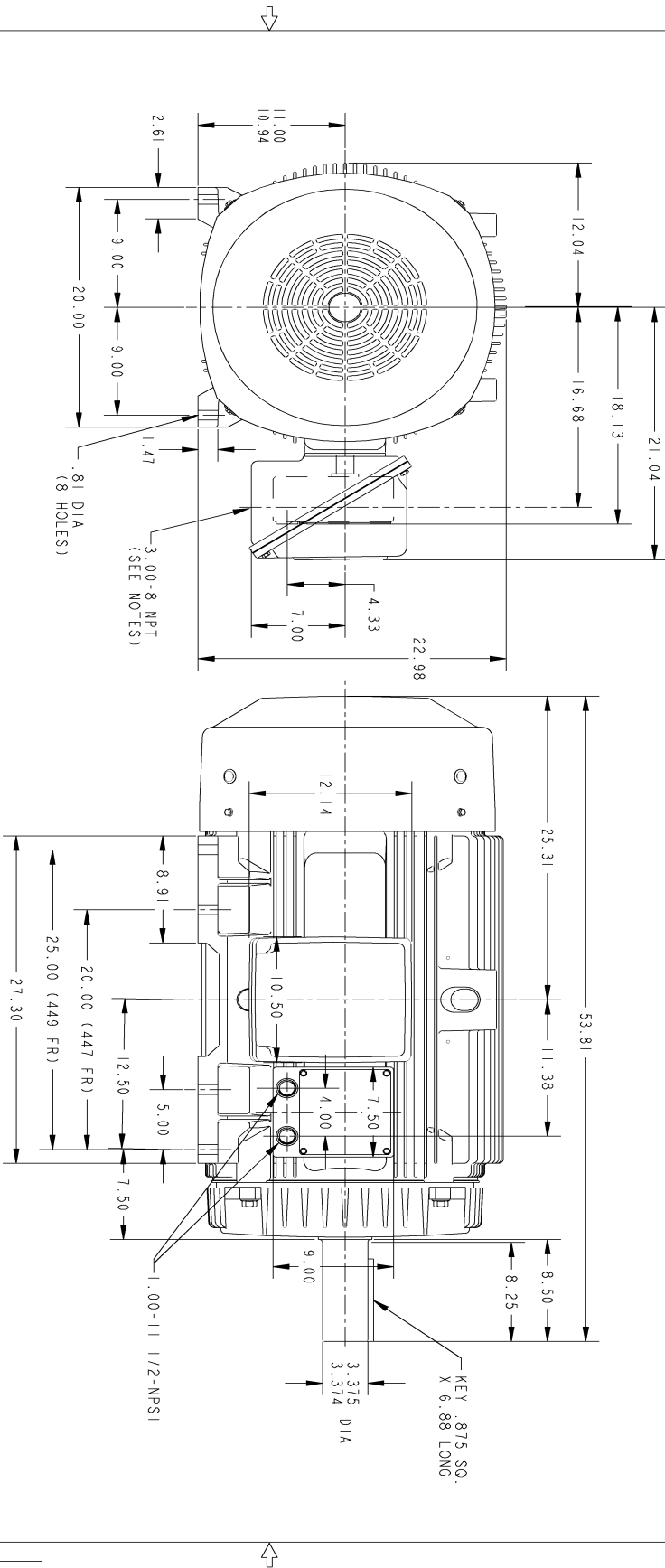
This motor is capable of two cold or one hot start with a maximum connected load inertia of 3411 Lb-Ft Sq (143.6 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 47 seconds. Safe stall time at 100% voltage is 109 seconds cold, 57 seconds hot. Rotor inertia is 68.04 Lb-Ft Sq (2.86 Kg-meter Sq).

Open Circuit A-C:	0.799	Short Circuit D-C:	0.03
Short Circuit A-C:	0.047	X/R Ratio:	11.417
Stator Slots:	60	Rotor Slots:	44

Speed Torque Current Curve (First Connection, First Speed)



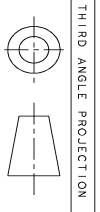
Marks:



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	ISAAC #12-0320 LAXMIKANTH	03/28/12	NANCHI

SHEET 1 OF 1
 DWG NO 225B6500HW

- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR TOWARD OPPOSITE DRIVE END.
 2. F-1 ASSEMBLY AS SHOWN.
 3. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.



UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE	
DIMENSIONS ARE IN INCHES		DRAWN M. R. SURINK		05/18/94	
TOLERANCES ON:		CHECKED M. R. B.		05/18/94	
2 PL. DECIMALS ±					
3 PL. DECIMALS ±					
ANGLES ±					
FRACTIONS ±					
MATERIALS:		ISSUED		05/18/94	
APPLIED PRACTICES:		CAD NO. 0H449:225B6500HW		SIZE B	
		SCALE .125		SHEET 1 OF 1	

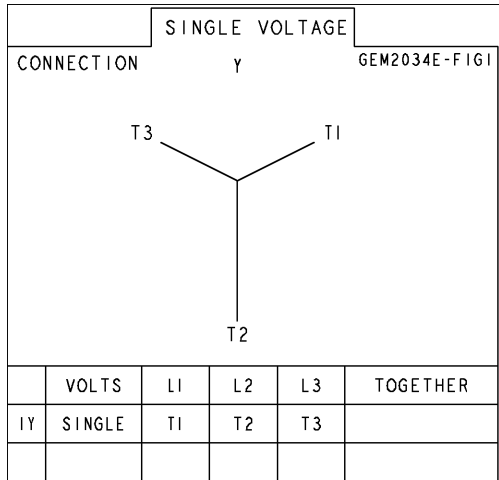
GE Motors
 Fort Wayne, Indiana

OUTLINE
 447/449T TFC 700 CU IN. BOX
 ACCESSORY BOX

DWG NO 225B6500HW

Marks:

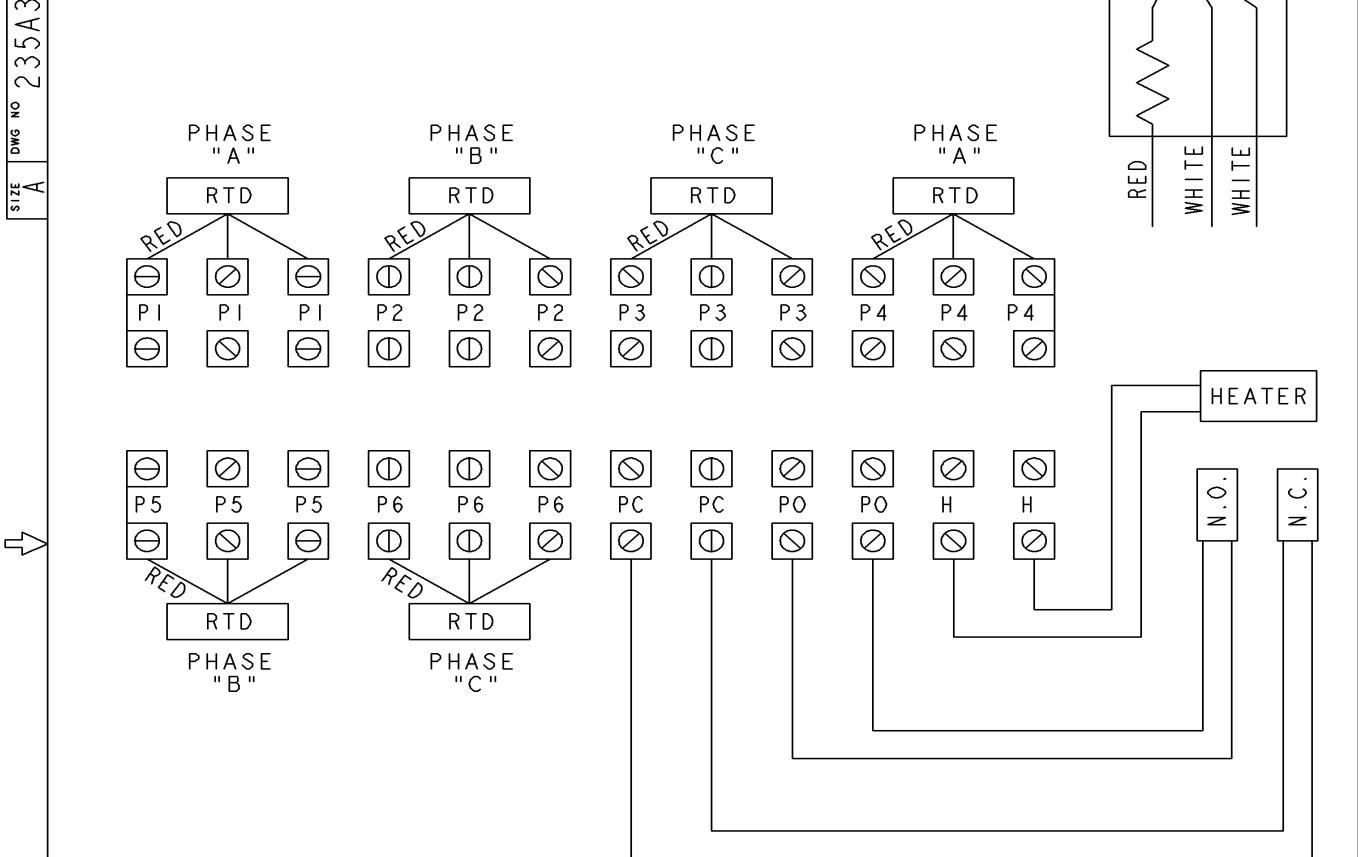
Connection Diagram
GEM2034E-FIG1





SH 1 REV 3	THIRD ANGLE PROJECTION	REVISIONS			
		REV	DESCRIPTION	DATE	APPROVED
		2	ISAAC 02-3381 NRS	12/20/02	
		3	P6 CONNECTED NARAYANAN	05/30/06	BHASKAR

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- 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.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± ANGLES ± FRACTIONS ± MATERIAL: APPLIED PRACTICES:	SIGNATURES		DATE	GE Motors & Industrial Systems Fort Wayne, Indiana
	DRAWN R.D.COE		09/21/01	
	CHECKED R.D.C.		09/21/01	
	ENGRG			
		ISSUED	09/24/01	CONNECTION DIAGRAM WINDING RTD'S & T'STATS & HEATERS
CAD NO. 235A3027RY		SIZE A	FSCM NO	DWG NO 235A3027RY
		SCALE .95		SHEET 1 OF 1



DISTR TO