

Product Information Packet

January 12, 2017

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

Model Number:	5KS449SAG124A
Catalog Number:	E9522
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	225B6500KL

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:	5KS449SAG124A	Estimated Weight:	2610 Lbs
Outline Drawing:	225B6500KL	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	49ED0009E	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	XX
Frame:	449TS	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	93.6 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	93.0
RPM:	3560	3/4 Load Efficiency:	94.1
Voltage:	2300	KVA Code:	G
Hertz:	60	Max KVAR:	21.3
Amps - FL:	42.8	Power Factor:	93.5
Service Factor:	1.0	Bearing - DE:	6314ZC3
Alt Service Factor:	XX	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

MAX INT AND EXT SURFACE TEMP FOR NORM OPER
 AT RATED COND 260 DEG C
 VIBRATION LIMIT = 0.055 IPS
 GREASE POLYREX EM
 TEMP CONT HTR LDS H 115V 125W
 OFFSET CORE - DO NOT ASSEMBLE F2
 STAMP NP249A5564P009 AS FOLLOWS:
 MAXIMUM SPACE HEATER SURFACE
 TEMPERATURE FOR NORMAL OPERATION
 AT RATED CONDITIONS 208 DEG C

Additional Information:

2 POLE, TS SHAFT EXTN
 FORMED COIL
 TEMP CONTRL 115V HEATER LEADS TO ACC BOX
 100 OHM WINDING RTD LEADS TO ACC BOX
 700 Cu. In. CBOX
 CLASS F TEMP RISE AT 1.0SF

Performance Characteristics

1st Winding 1st Connection

Design: 49ED0009E

Marks:

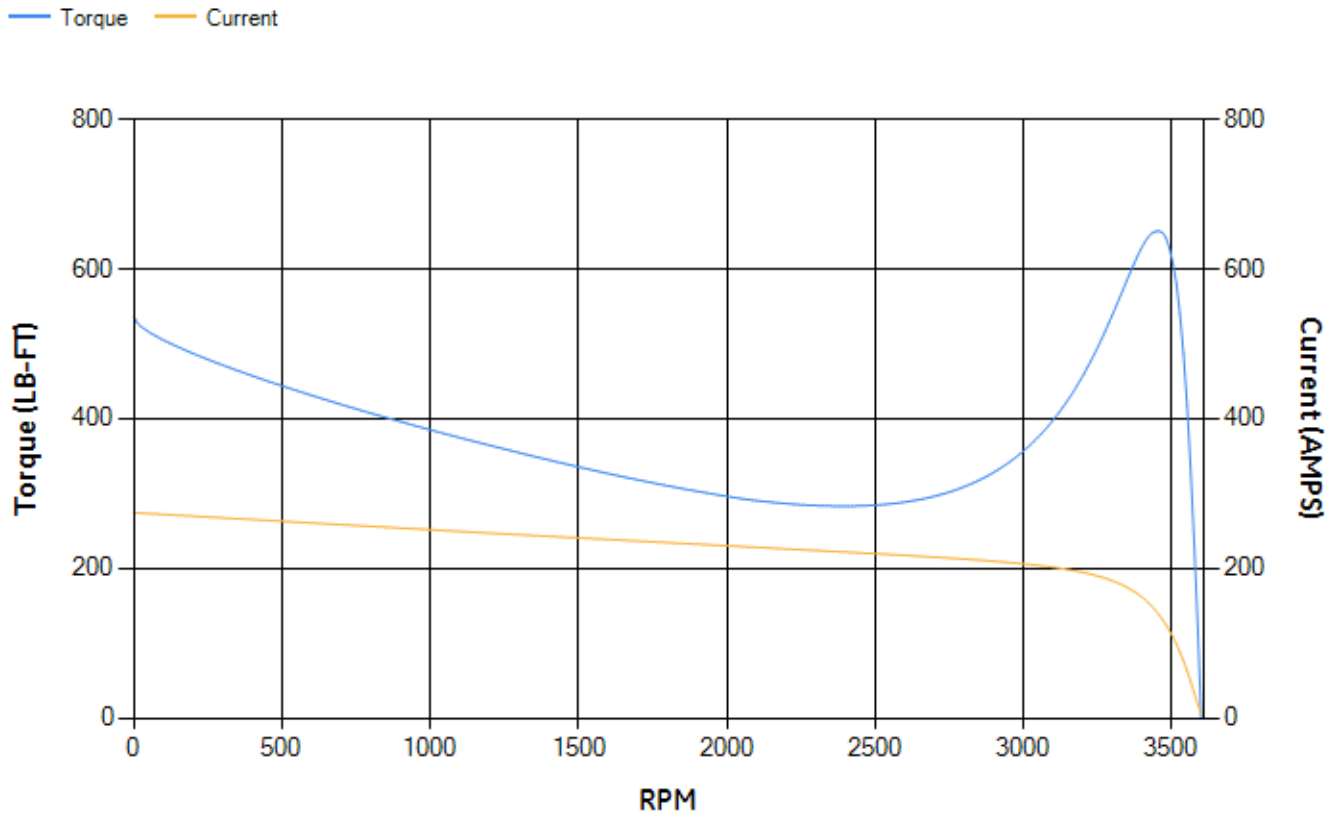
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.13	93.44	94	94.06	93.54	90.3	0.00
% PF	92.71	93.19	93.7	93.87	92.43	84.29	14.95
AMPS	54.2	49.45	42.51	31.8	21.65	12.3	5.91

TORQ(FL)#FT	294.86	TORQ(LR)%FL	182.11	TORQ(BD)%FL	220.09
AMPS(LR)	274.35	PF AT START	0.32		

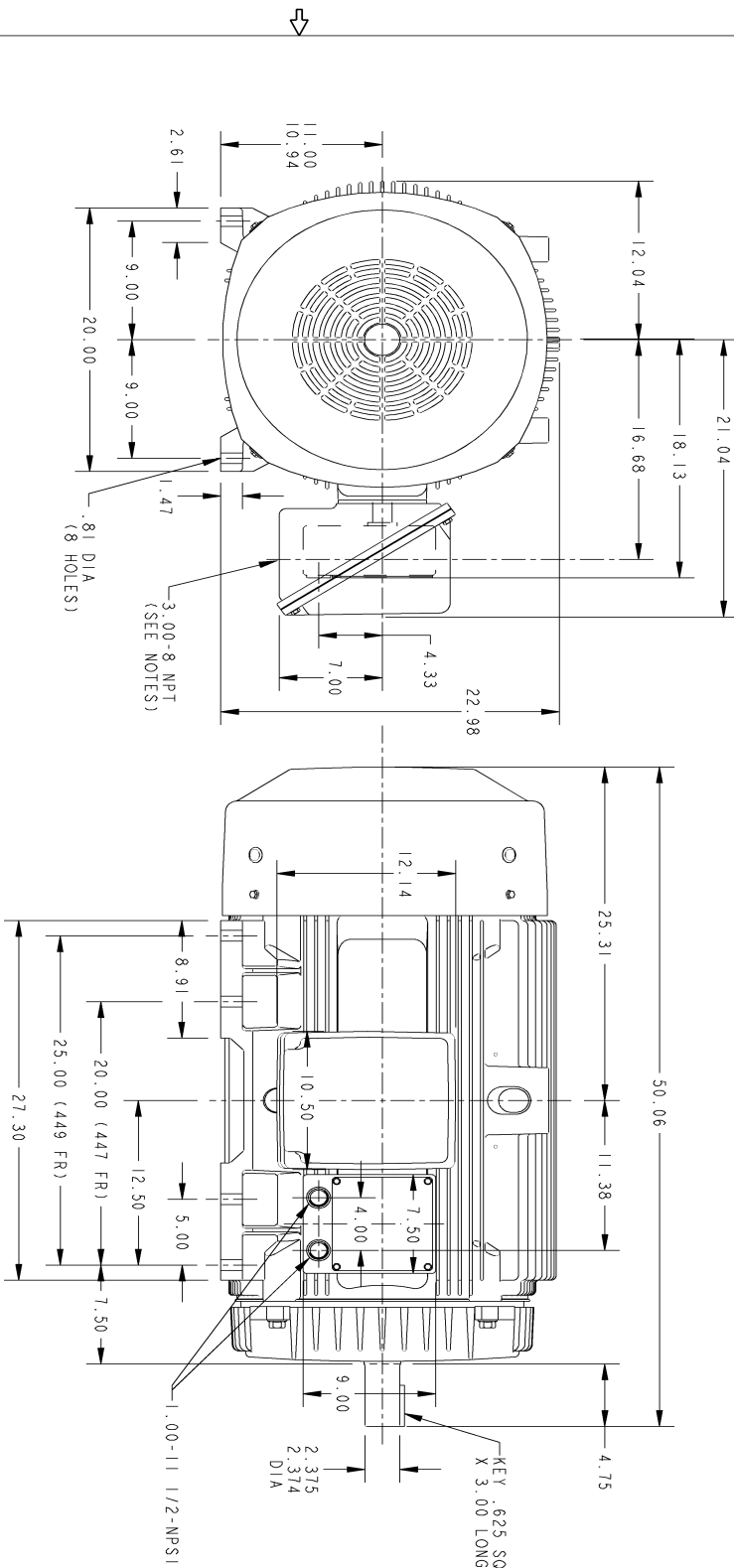
This motor is capable of two cold or one hot start with a maximum connected load inertia of 316 Lb-Ft Sq (13.3 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 15 seconds. Safe stall time at 100% voltage is 51 seconds cold, 18 seconds hot. Rotor inertia is 46.83 Lb-Ft Sq (1.97 Kg-meter Sq).

Open Circuit A-C:	1.828	Short Circuit D-C:	0.024
Short Circuit A-C:	0.044	X/R Ratio:	9.017
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



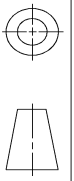
Marks:



SIZE B DRAWING NO. 225B6500KL

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ISAAC #12-0301	SRANANTHI 03/22/2012	V JAY

THIRD ANGLE PROJECTION



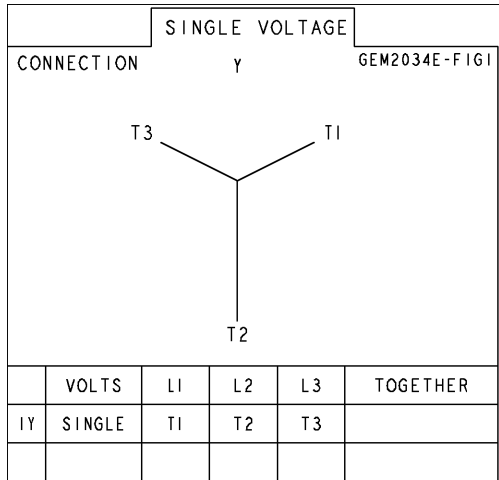
- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR TOWARD OPPOSITE DRIVE END.
 2. F-1 ASSEMBLY AS SHOWN.
 3. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE & ACC BOX DIAGONALLY OPPOSITE.

SIGNATURES	DATE	GE Industrial Systems GENERAL ELECTRIC COMPANY Fort Wayne, Indiana
DRAWN M.R. BOURNE	02/05/98	
CHECKED M.R. B	02/05/98	
ENGR. ENGR	02/05/98	
ISSUED	02/05/98	
APPLIED PRACTICES	SIZE DRAWING	700 CU. IN. BOX & ACC. BOX
	SCALE: .125	225B6500KL
		REV. 1

DISTRIBUTION:

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

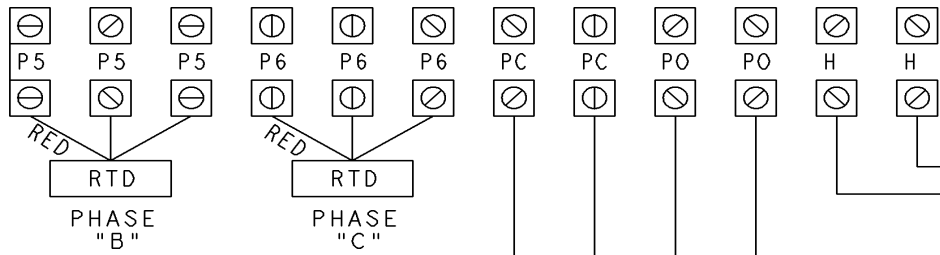
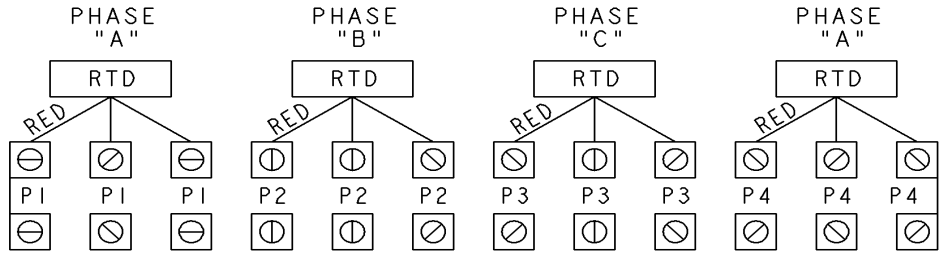
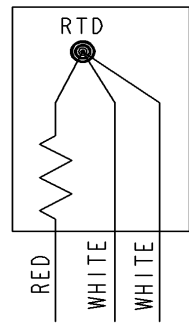
DNG NO 235A3027RY

SIZE A

GE MOTORS & INDUSTRIAL SYSTEMS

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GE MOTORS & INDUSTRIAL SYSTEMS



- 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	
	ISSUED		09/24/01	
CAD NO. 235A3027RY		SIZE A	FSCM NO	DWG NO 235A3027RY
		SCALE .95	SHEET 1 OF 1	

DISTR TO

