

# Product Information Packet

May 26, 2017

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

<b>Model Number:</b>	<b>5KAF404SAA323A</b>
<b>Catalog Number:</b>	<b>M9332</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG3
<b>Outline Drawing:</b>	239C5400AA

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	3027JE-2A	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KAF404SAA323A</b>		
<b>Outline Drawing:</b>	239C5400AA	<b>Service Factor:</b>	1.15
<b>Connection Diagram:</b>	GEM2034E-FIG3	<b>Alt Service Factor:</b>	--
<b>Instruction Book:</b>	GEI-56128	<b>ASD Type:</b>	PWM
<b>Design Code:</b>	40BD3053A	<b>Time Rating:</b>	CONT
<b>Type:</b>	KAF	<b>Enclosure:</b>	TEFC
<b>Frame:</b>	404T	<b>Encl Construction:</b>	A\$D
<b>Phases:</b>	3	<b>Ambient Max (°C):</b>	40
<b>Poles:</b>	6	<b>Alt Ambient Max(°C):</b>	--
<b>Output Power:</b>	60HP 44.4KW	<b>Insulation Class:</b>	H
<b>Output Power (2):</b>	60HP 44.4KW	<b>NEMA Design:</b>	-
<b>Output Power (3):</b>		<b>Nominal Efficiency:</b>	94.5 %
<b>RPM:</b>	1783	<b>Guaranteed Efficiency:</b>	93.6 %
<b>RPM (2):</b>	1190	<b>3/4 Load Efficiency:</b>	94.6 %
<b>RPM (3):</b>	-	<b>KVA Code:</b>	H
<b>Voltage:</b>	230/460	<b>Max KVAR:</b>	21.7
<b>Voltage (2):</b>	230/460	<b>Power Factor:</b>	83.0
<b>Voltage (3):</b>	6.5/13	<b>Service Factor SINE:</b>	1.15
<b>Hertz:</b>	90	<b>Service Factor ASD:</b>	1
<b>Hertz – 2:</b>	60	<b>Min Supply Wires:</b>	75 C
<b>Hertz – 3:</b>	.6	<b>IP:</b>	55
<b>Amps – FL:</b>	137.6/68.8	<b>Vibration Limit:</b>	0.04 mm/s
<b>Amps – FL- 2:</b>	143.2/71.6	<b>Bearing Lubrication:</b>	NULL
<b>Amps - FL- 3:</b>	143.2/71.6	<b>Bearing - DE:</b>	6316ZC3
<b>Speed Range RPM:</b>	1-1190	<b>Bearing - ODE:</b>	6316ZC3
<b>Const HP RPM:</b>	1190-1783	<b>Estimated Weight:</b>	1390 Lbs

**Enclosure is Totally Enclosed Fan-Cooled****Stamped Nameplate Notes:**

ALTERNATE RATING FOR PWM CONTROL: 1.0SF 40C AMB  
 INVERTER DUTY CONSTANT TORQUE RANGE: 0-60HZ  
 THERMOSTAT LEADS TB1-TB2 TRIP  
 IP 55  
 CLASS H INS WITH CLASS F RISE AT 1.00SF,  
 INVERTER DUTY PER NEMA MG1 PART 31  
 WITH PWM CONTROL

**Additional Information:**

6P - T EXTN  
 C/BOX 700 CU IN - 3.00" NPT  
 E/S GROUND BOLT MTD ON DE C/BOX SIDE NEAR FOOT  
 OIL RESISTANT SLEEVING ON LEADS  
 TACH PROVISION MOTOR

N.C. TRIP TSTAT LDS TO MAIN CONDUIT BOX  
F1 MOUNTING  
PAINTED ODE ACCESSORY RABBET  
SHAFT GROUNDING RING MOUNTED ON DE BRG CAP

**Performance Characteristics**

1st Winding 1st Connection

**Design: 40BD3053A**

**Marks:**

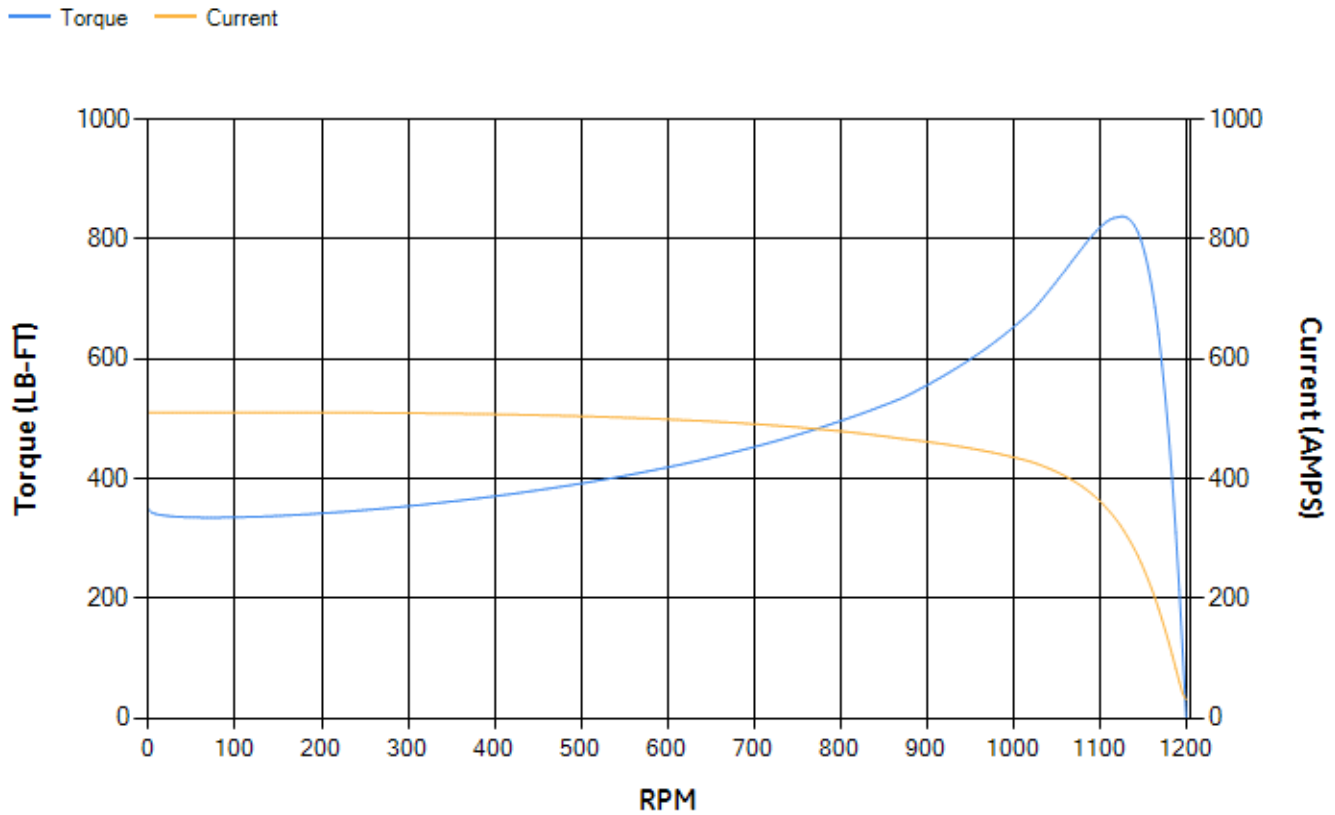
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.87	94.11	94.59	94.6	94.12	91.17	0.00
% PF	85.28	84.53	82.86	77.77	67.03	44.24	3.67
AMPS	87.69	81.18	71.5	57.25	44.51	34.8	30.23

<b>TORQ(FL)#FT</b>	264.8	<b>TORQ(LR)%FL</b>	131.44	<b>TORQ(BD)%FL</b>	315.2
<b>AMPS(LR)</b>	509.78	<b>PF AT START</b>	0.32		

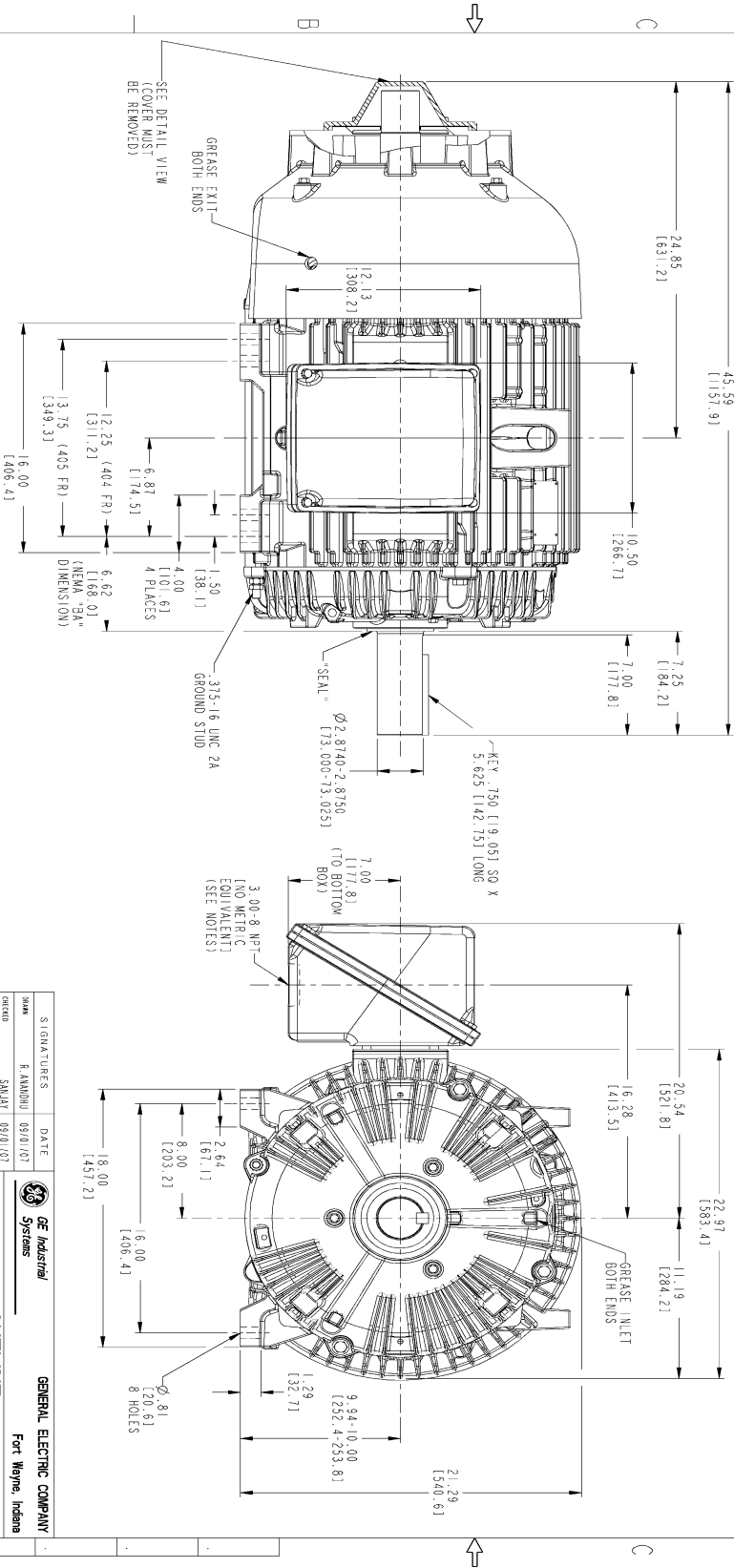
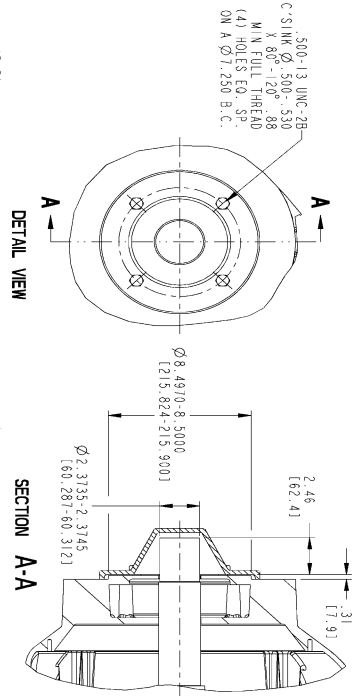
This motor is capable of two cold or one hot start with a maximum connected load inertia of 3422 Lb-Ft Sq (144.07 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 35 seconds. Safe stall time at 100% voltage is 84 seconds cold, 52 seconds hot. Rotor inertia is 26.19 Lb-Ft Sq (1.1 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.68	<b>Short Circuit D-C:</b>	0.016
<b>Short Circuit A-C:</b>	0.035	<b>X/R Ratio:</b>	5.993
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	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. F-2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

REV.	DESCRIPTION	DATE	APPROVED
1	SMC # 2-0122	07/13/2012	NAVATHA

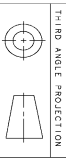
DESIGNED BY	R. ANANDU	DATE	09/10/07
CHECKED BY	SANJAY	DATE	09/10/07
DESIGNED BY	R. ANANDU	DATE	09/10/07

**GENERAL ELECTRIC COMPANY**  
Fort Wayne, Indiana

**OUTLINE**  
404/405 T TEFC ASD  
700 CU IN. CBOX, PROV. FOR TACH

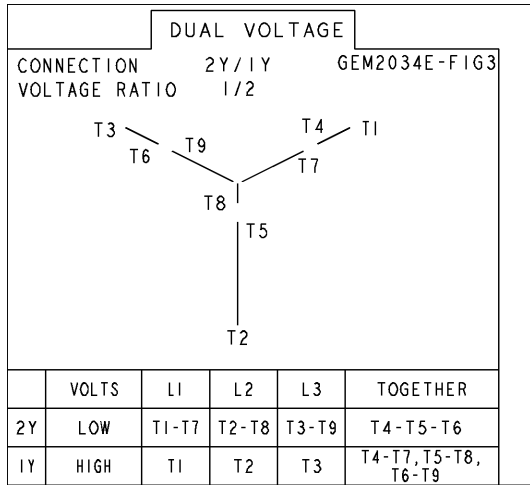
SCALE: 0.200 REF. NO. 239C5400AA

DISTRIBUTION: MMP



Marks:

**Connection Diagram**  
**GEM2034E-FIG3**



**Thermostat Connection**  
**3027JE-2A**

