

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS445LAA118D1</b>
<b>Catalog Number:</b>	<b>M7918</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239CC600AB

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS445LAA118D1</b>	<b>Estimated Weight:</b>	1830 Lbs
<b>Outline Drawing:</b>	239CC600AB	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	44BD0103A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	445TS	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	A
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	95.0 %
<b>Output Power:</b>	150HP 111KW	<b>Guaranteed Efficiency:</b>	94.1
<b>RPM:</b>	3580	<b>3/4 Load Efficiency:</b>	94.9
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	39.6
<b>Amps - FL:</b>	170.0	<b>Power Factor:</b>	87.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6314ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6314ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT  
 VAR TORQUE RANGE 0-60 HZ

**Additional Information:**

2P - TS EXTN  
 700 CU IN - 3.00" NPT  
 OIL RESISTANT SLEEVING ON LEADS  
 F1 MOUNTING  
 VIBRATION LIMIT 0.15 INCH PER SEC

**Performance Characteristics**

1st Winding 1st Connection

**Design: 44BD0103A**

**Marks:**

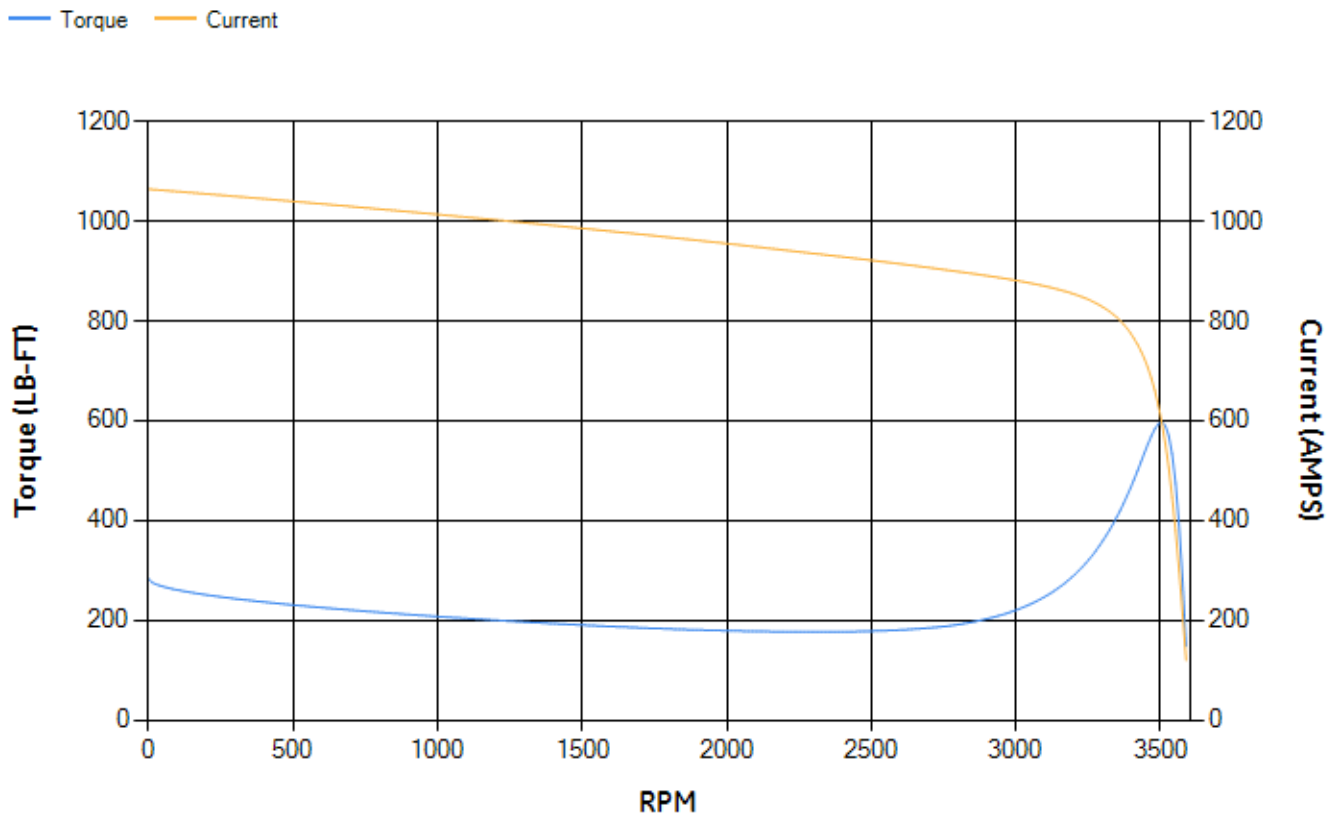
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.62	94.77	95.12	94.87	94.09	90.63	0.00
% PF	88.08	87.88	87.17	84.28	76.73	56.06	5.9
AMPS	210.57	193.86	169.32	131.69	97.24	69.07	55.01

<b>TORQ(FL)#FT</b>	220.07	<b>TORQ(LR)%FL</b>	128.62	<b>TORQ(BD)%FL</b>	271.07
<b>AMPS(LR)</b>	1064.19	<b>PF AT START</b>	0.2		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 348 Lb-Ft Sq (14.65 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 28 seconds. Safe stall time at 100% voltage is 72 seconds cold, 33 seconds hot. Rotor inertia is 22.71 Lb-Ft Sq (0.96 Kg-meter Sq).

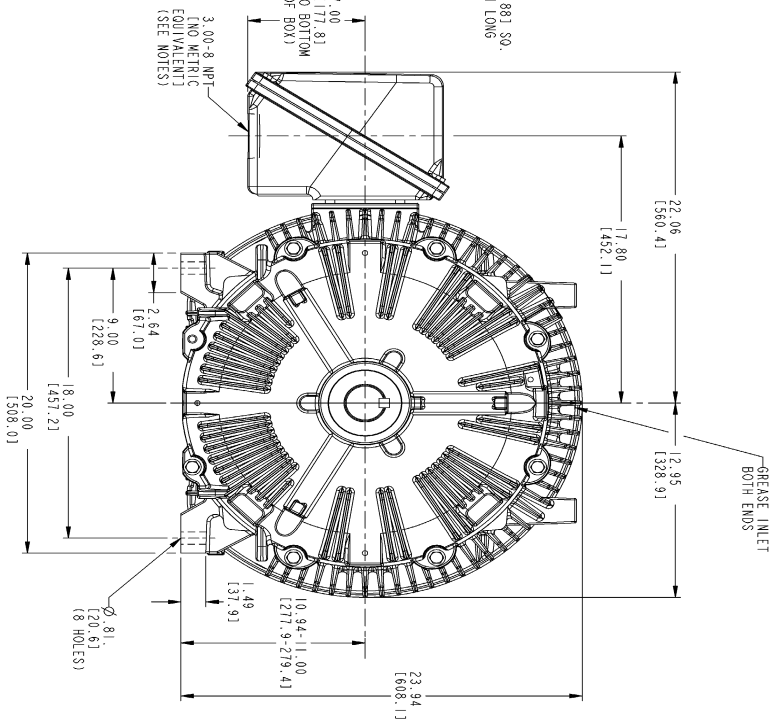
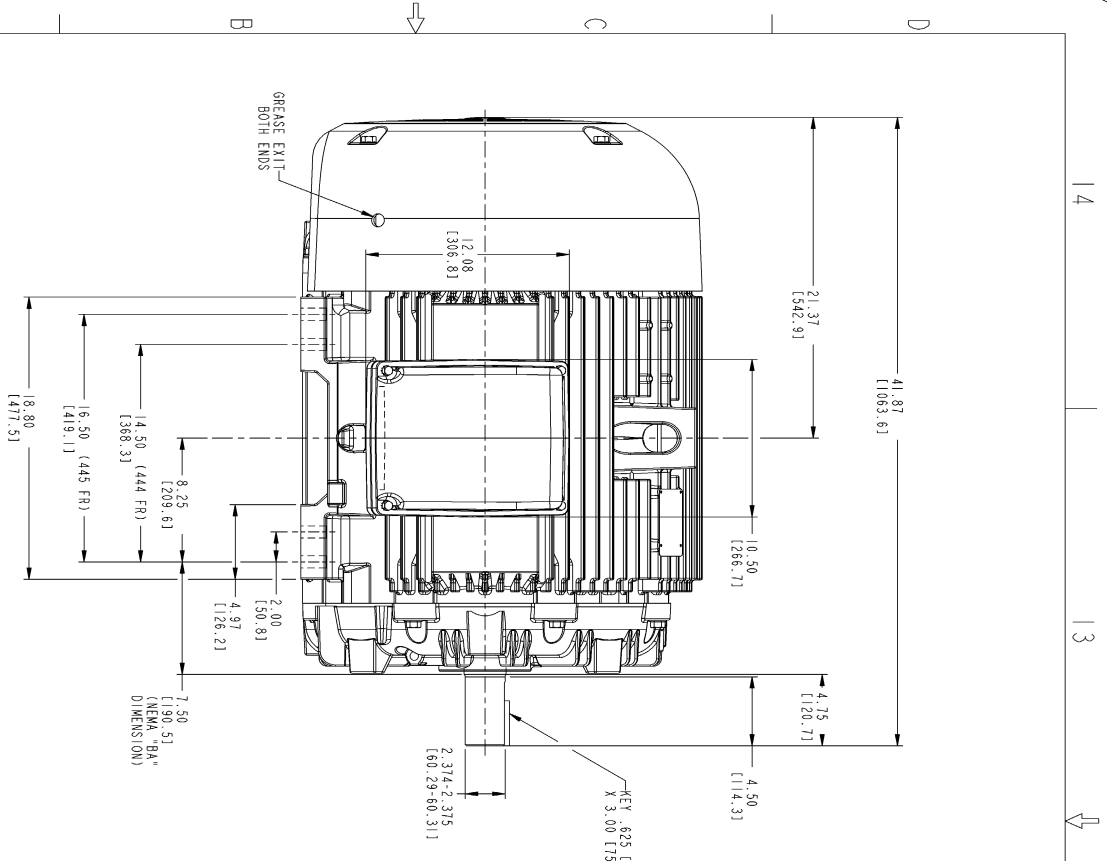
<b>Open Circuit A-C:</b>	1.33	<b>Short Circuit D-C:</b>	0.034
<b>Short Circuit A-C:</b>	0.073	<b>X/R Ratio:</b>	12.655
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	38

**Speed Torque Current Curve (First Connection, First Speed)**



NAME:501352727 OBJECT:239CC600AB DATE:31-Jul-07 14:05:02

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

STOWTURES	DATE	<b>GE Industrial Systems</b> GENERAL ELECTRIC COMPANY Fort Wayne, Indiana
DESIGNED	01/21/07	
DRAWN	01/21/07	
CHECKED	01/21/07	
ISSUED	01/21/07	<b>OUTLINE</b> 444/445 TS TERC Esp 700 CU. IN. CONDUIT BOX <b>239CC600AB</b>
APPLIED PRACTICES		
SCALE: 0.200 REF. NO.:		REV: 0
SHEET 1 OF 1		DISTRIBUTION: MMP

Marks:

**Connection Diagram**  
**GEM2034E-FIG7**

