GE
Power Conversion

Product Information Packet

November 9, 2016

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

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

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

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

Enclosure is Totally Enclosed Fan-Cooled

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**

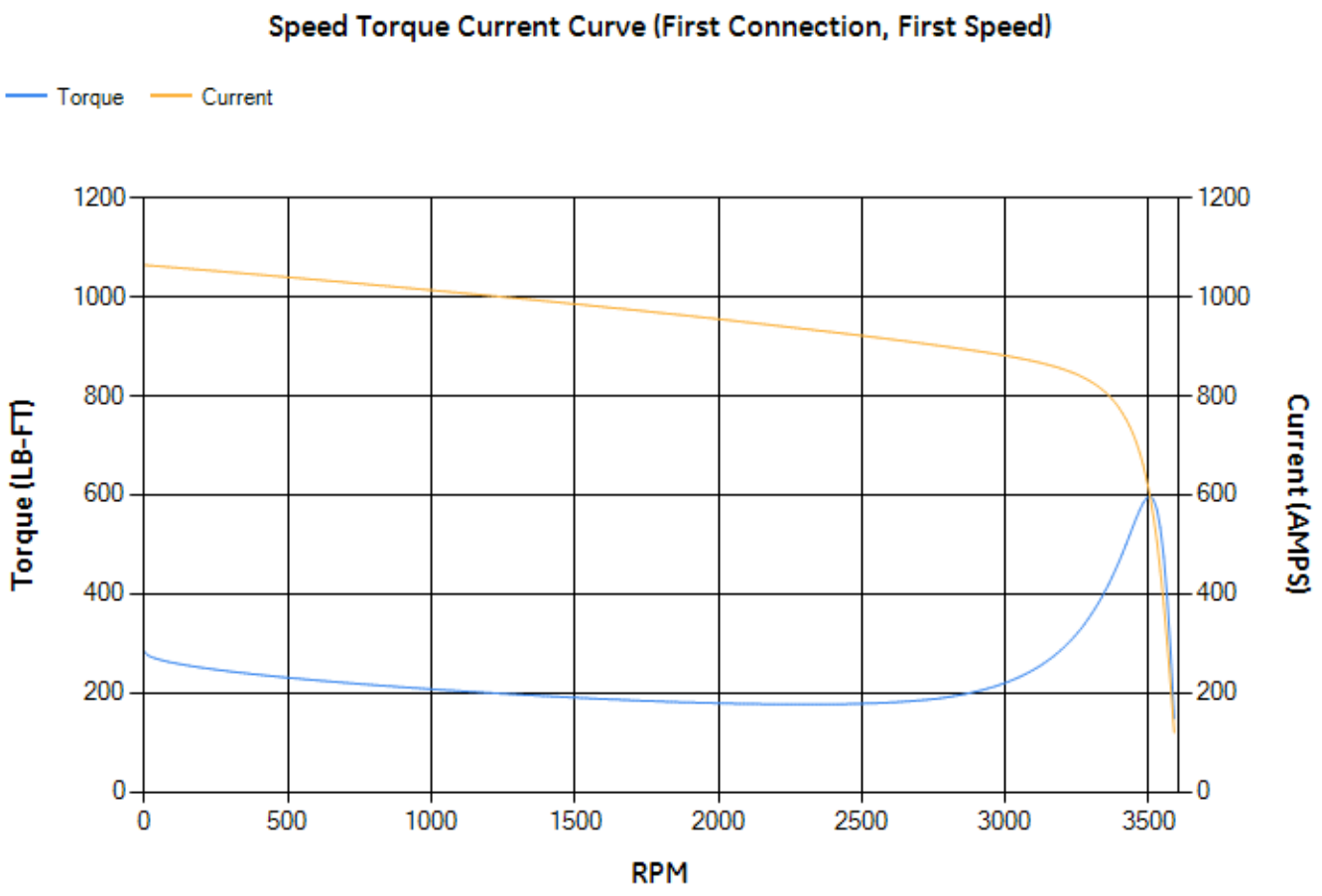
Marks:

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

TORQ(FL)#FT	220.07	**TORQ(LR)%FL**	128.62	**TORQ(BD)%FL**	271.07
AMPS(LR)	1064.19	**PF AT START**	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).

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



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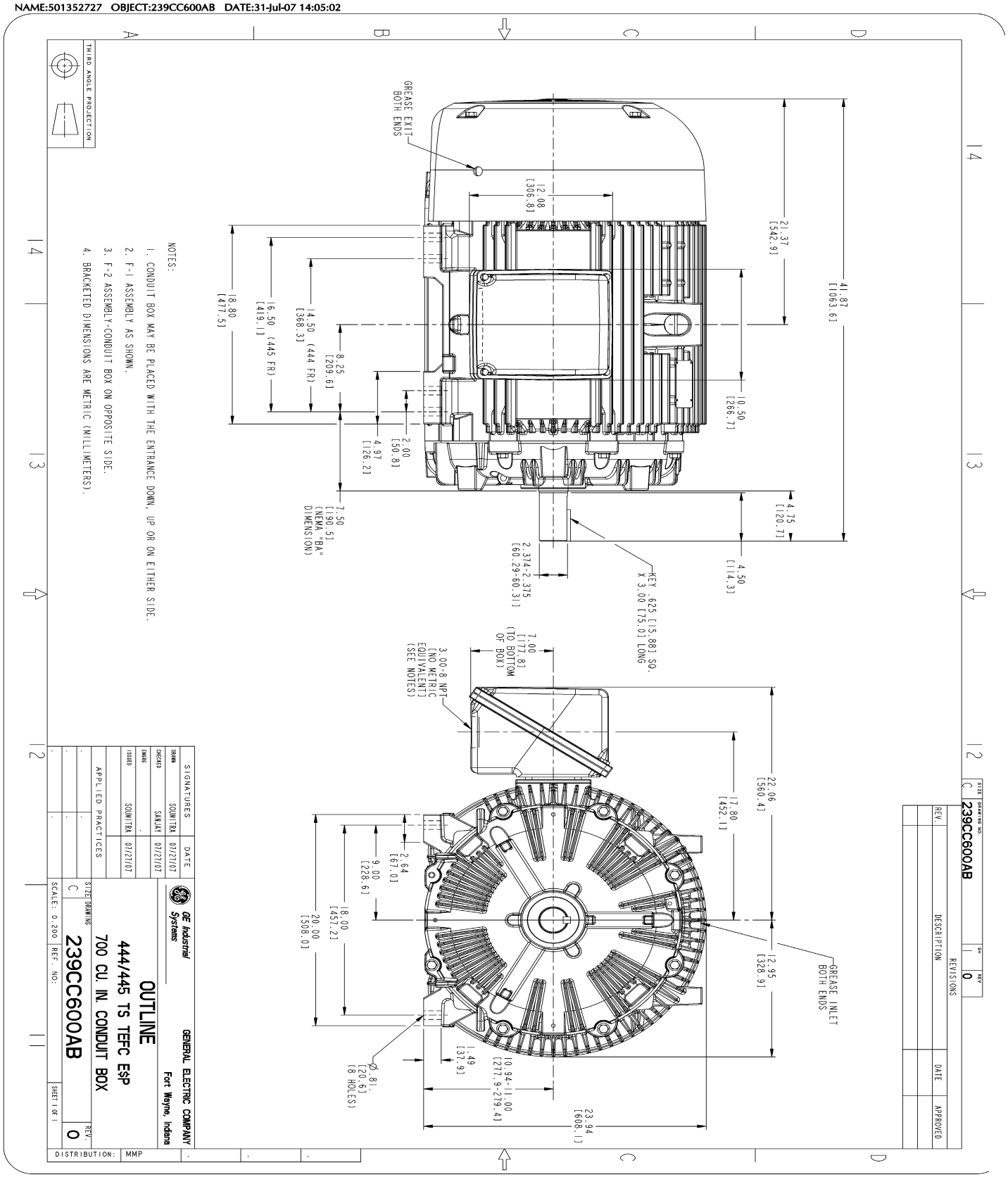
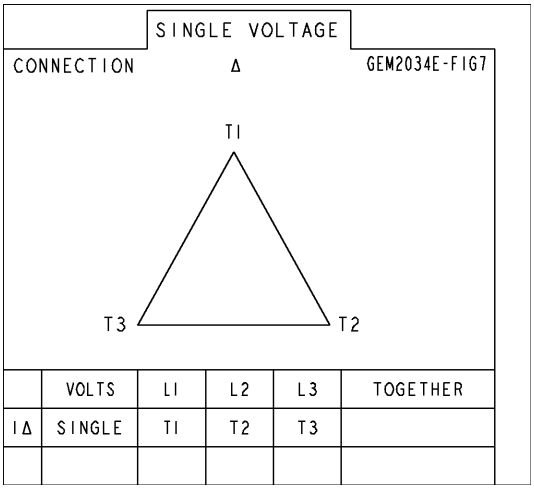


Connection Diagram

GEM2034E-FIG7



	VOLTS	L1	L2	L3	TOGETHER
1Δ	SINGLE	T1	T2	T3	