GE
Power Conversion

Product Information Packet

November 9, 2016

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

Model Number:	**5KS449LAA204D1**
Catalog Number:	**M7943**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239CC800AA

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:	**5KS449LAA204D1**	**Estimated Weight:**	2800 Lbs
Outline Drawing:	239CC800AA	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	SD
Design Code:	49BD1245B	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	449T	**Insulation Class:**	F
Phases:	3	**NEMA Design:**	A
Poles:	4	**Nominal Efficiency:**	96.2 %
Output Power:	250HP 185KW	**Guaranteed Efficiency:**	95.4
RPM:	1795	**3/4 Load Efficiency:**	96.1
Voltage:	575	**KVA Code:**	H
Hertz:	60	**Max KVAR:**	77.9
Amps - FL:	229.0	**Power Factor:**	85.0
Service Factor:	1.15	**Bearing - DE:**	NU 318
Alt Service Factor:	--	**Bearing - ODE:**	6318ZC3S0

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
ROLLER BEARING - FOR BELTED LOAD ONLY
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 0-60 HZ

Additional Information:

4P - T EXTN
700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
F1 MOUNTING
VIBRATION LIMIT 0.0016 INCH PEAK TO PEAK

Performance Characteristics 1st Winding 1st Connection **Design: 49BD1245B**

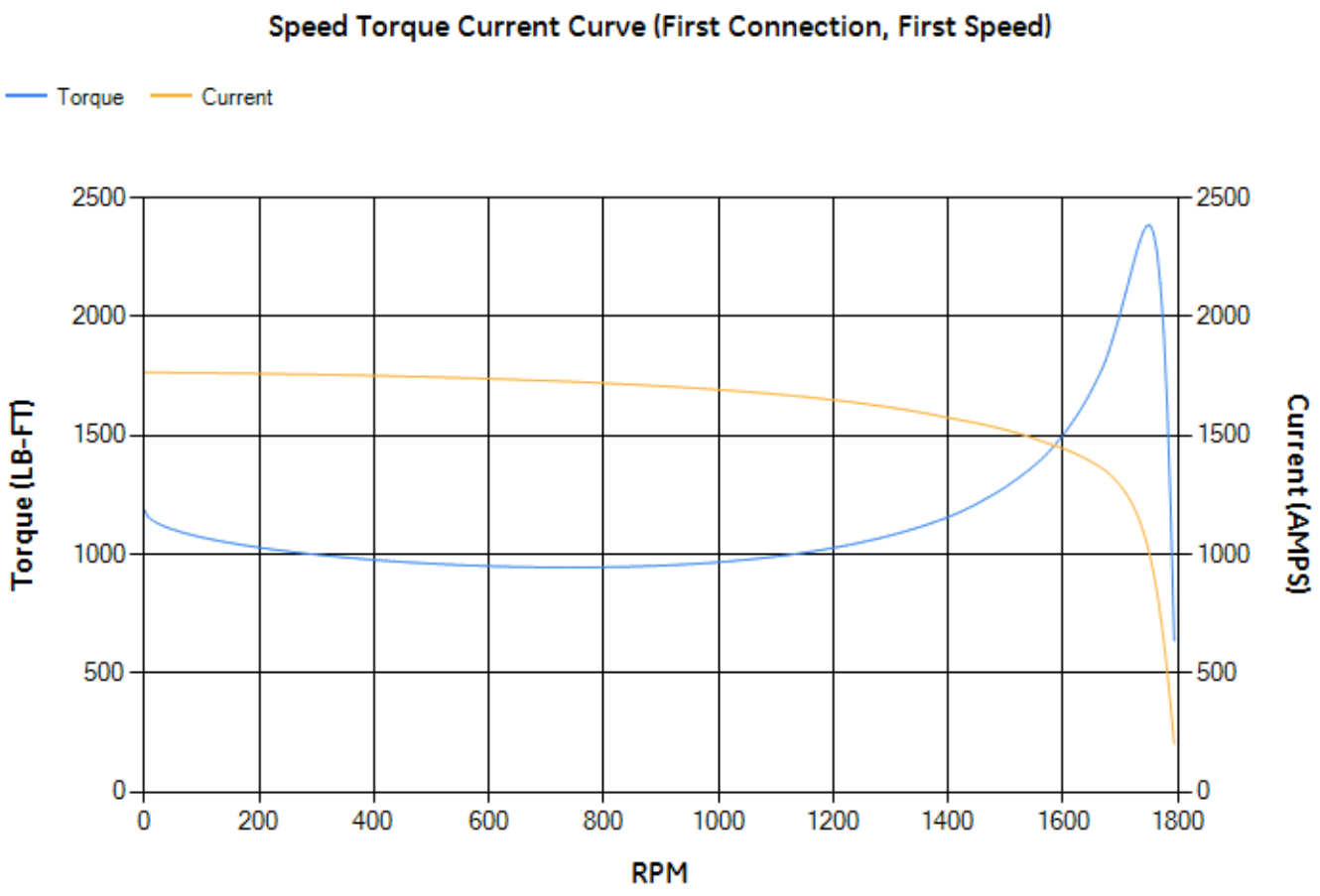
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.82	95.94	96.27	96.07	95.53	92.98	0.00
% PF	87.14	86.57	85.25	80.98	71.39	48.84	3.58
AMPS	280.2	259.17	228.12	180.44	137.23	103.05	86.91

TORQ(FL)#FT	732.19	**TORQ(LR)%FL**	162.01	**TORQ(BD)%FL**	325.74
AMPS(LR)	1765.16	**PF AT START**	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 5927 Lb-Ft Sq (249.53 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 40 seconds. Safe stall time at 100% voltage is 98 seconds cold, 59 seconds hot. Rotor inertia is 109.54 Lb-Ft Sq (4.61 Kg-meter Sq).

Open Circuit A-C:	1.605	**Short Circuit D-C:**	0.027
Short Circuit A-C:	0.071	**X/R Ratio:**	10.347
Stator Slots:	72	**Rotor Slots:**	58



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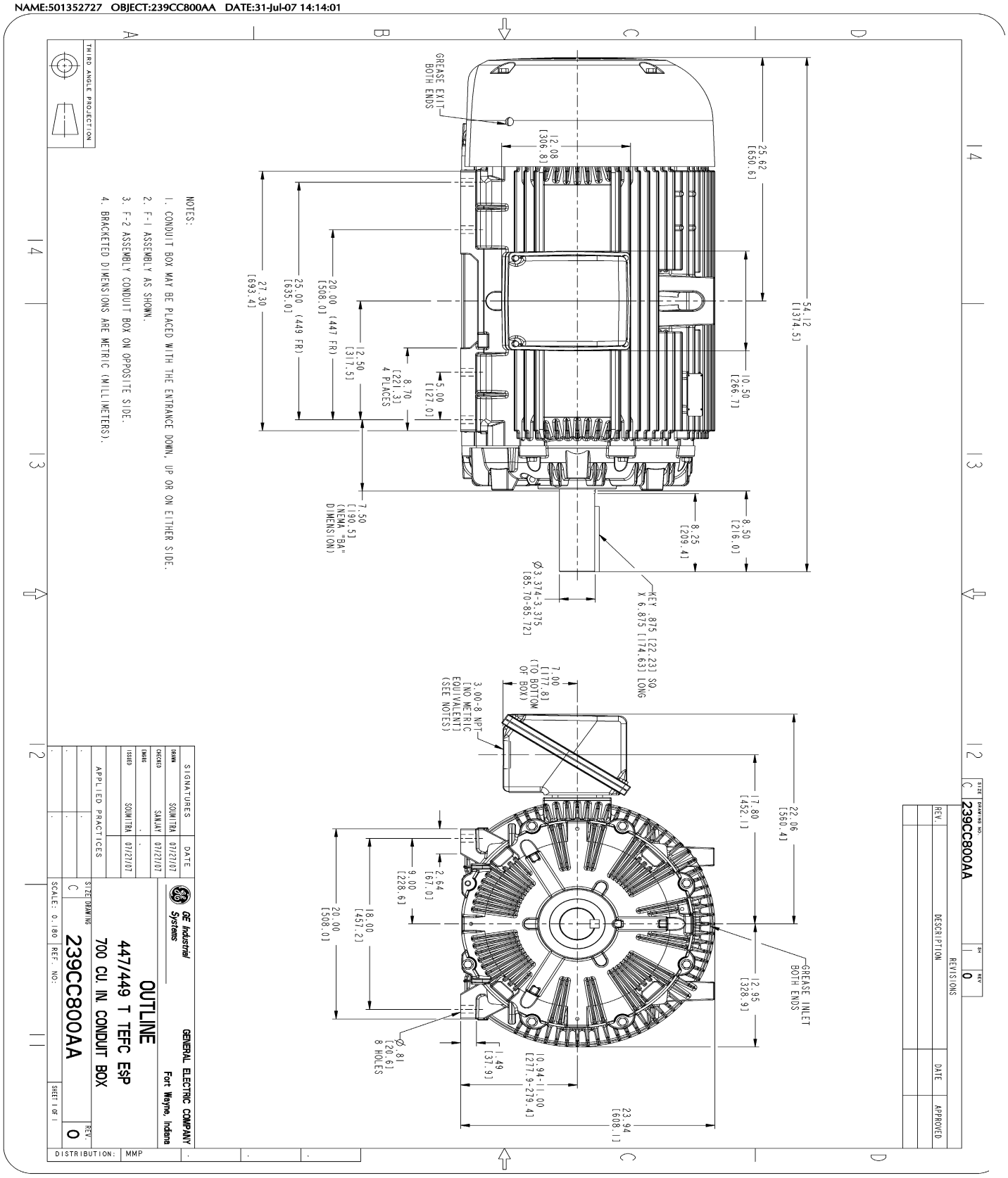

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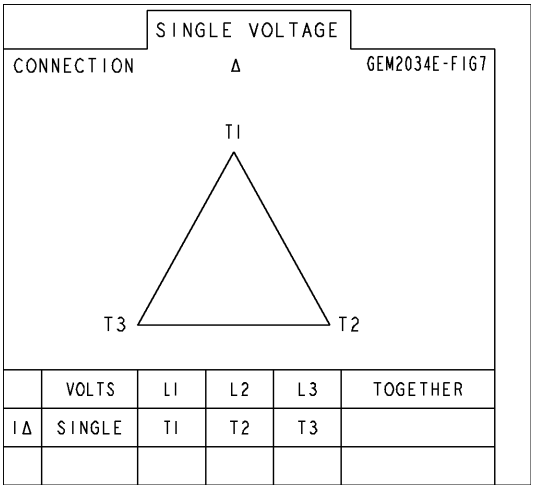
Connection Diagram

GEM2034E-FIG7



	VOLTS	L1	L2	L3	TOGETHER
1Δ	SINGLE	T1	T2	T3	