

Product Information Packet

November 8, 2016

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

Model Number:	5KS445XAA408D5
Catalog Number:	M9469
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6600YF

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS445XAA408D5	Estimated Weight:	1860 Lbs
Outline Drawing:	239C6600YF	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	44BD4022A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	445T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	94.5 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	94.1
RPM:	890	3/4 Load Efficiency:	94.6
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	46.8
Amps - FL:	132.0	Power Factor:	75.0
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 90BC03JP3, ODE BRG 90BC03JP3
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS445XAA408D5 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
 IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 215C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR 230C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 15-60 HZ, CHP 60-90 HZ.

Additional Information:

8P - T EXTN
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 700 CU IN - 3.00" NPT
 INPRO SEAL BOTH ENDS
 OIL RESISTANT SLEEVING ON LEADS
 .0015" TIR SHAFT RUNOUT
 ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
 REPORT INCLUDED IN C/B
 COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
 APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
 RABBETS AND PLUG THREADS.
 GROUND PAD
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 44BD4022A

Marks:

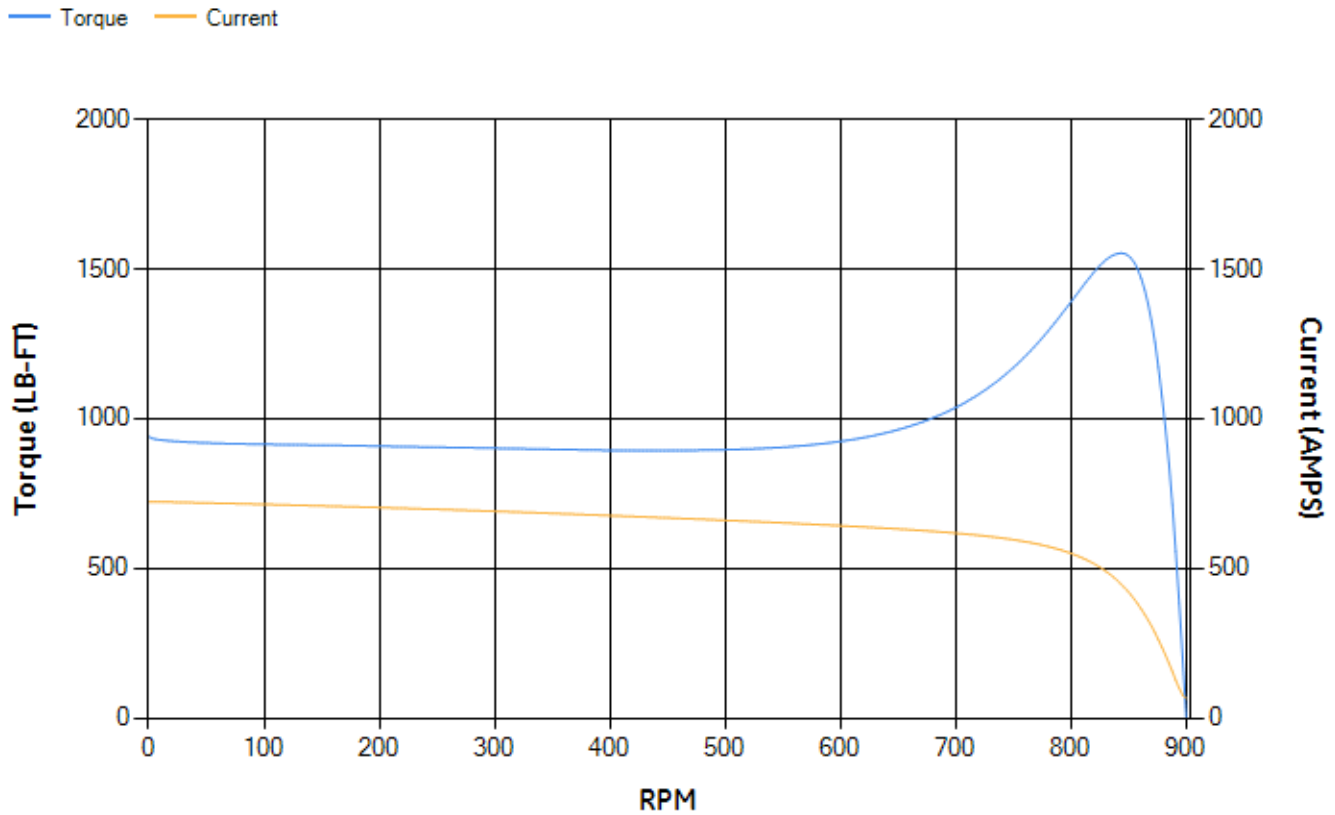
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.16	94.36	94.76	94.6	93.86	90.38	0.00
% PF	77.77	76.93	74.97	69.02	57.38	35.99	3.31
AMPS	159.77	148.28	131.74	107.52	86.9	71.93	65.26

TORQ(FL)#FT	590.34	TORQ(LR)%FL	159.27	TORQ(BD)%FL	262.44
AMPS(LR)	722.73	PF AT START	0.33		

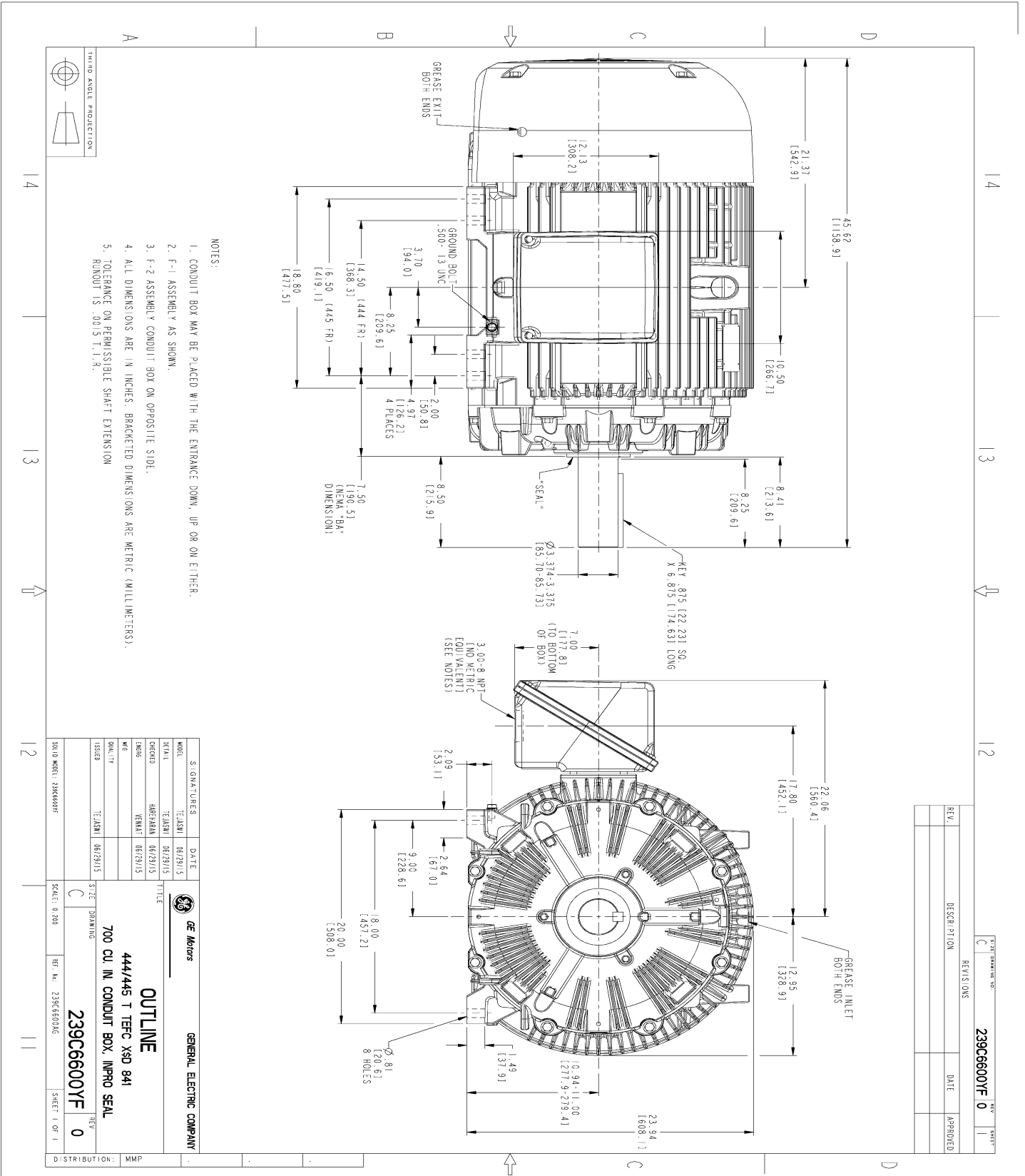
This motor is capable of two cold or one hot start with a maximum connected load inertia of 12750 Lb-Ft Sq (536.78 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 47 seconds. Safe stall time at 100% voltage is 108 seconds cold, 56 seconds hot. Rotor inertia is 76.69 Lb-Ft Sq (3.23 Kg-meter Sq).

Open Circuit A-C:	0.41	Short Circuit D-C:	0.029
Short Circuit A-C:	0.032	X/R Ratio:	11.052
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

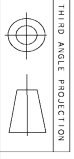


NOTES:

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER.
2. F-1 ASSEMBLY AS SHOWN.
3. F-2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE.
4. ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).
5. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION MINIMUM IS .005" (0.127mm).

REV.	DESCRIPTION	DATE	APPROVED

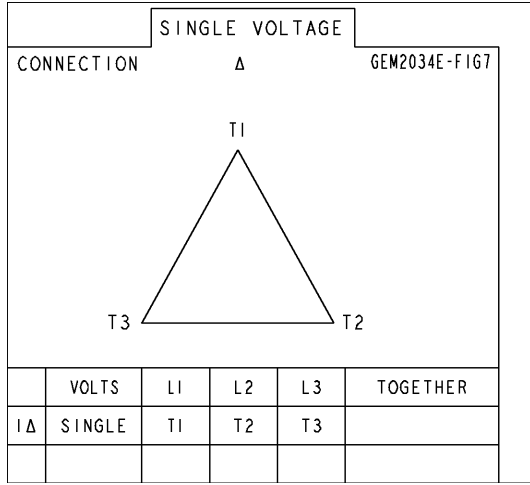
SIGNATURES		DATE	
MODEL	TEJSMI	08/29/15	
SCALE	TEJSMI	08/29/15	
CHECKED	JHEJSMI	08/29/15	
DESIGN	VENKAT	08/29/15	
QUALITY	TEJSMI	08/29/15	
ISSUED			
TITLE		SCALE: 0.200	
GENERAL ELECTRIC COMPANY		REF. NO.: 239C6600YF	
OUTLINE		SHEET 1 OF 1	
444/445 T TEFC XSD 841			
700 CU. IN. CONDUIT BOX, INPRO SEAL			
239C6600YF			
DISTRIBUTION: MMP			



1 4 1 3 1 2 1 1

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LM1
Bearing	235A2514AG01	235A2514AG01
Slinger/Inproseal	235A4575GS5	235A4575GS5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	