

Product Information Packet

November 8, 2016

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

Model Number:	5KS444XAA118D8
Catalog Number:	M9470
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6600YH

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:	5KS444XAA118D8	Estimated Weight:	2020 Lbs
Outline Drawing:	239C6600YH	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	44BD0135A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	444TS	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.0 %
Output Power:	125HP 92.5KW	Guaranteed Efficiency:	94.5
RPM:	3580	3/4 Load Efficiency:	95.0
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	21.8
Amps - FL:	135.0	Power Factor:	91.0
Service Factor:	1.15	Bearing - DE:	6314ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTION TO EEE-STD-841-2009:
 SOUND POWER LEVEL 91 DBA
 DE BRG 70BC03JP30, ODE BRG 70BC03JP30
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
 VAR TORQUE RANGE 0-60 HZ
 MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
 TEMPERATURES UNDER USUAL SERVICE CONDITIONS
 AT 1.00 S.F. DO NOT EXCEED 200 DEG C
 STAMP NP249A5499AP AS BELOW:
 MODEL:5KS444XAA118D8 S/N: XXX
 EX NA IIC T3 GC CSA.09.2216219
 CLASS I, ZONE 2, AEX NA IIC T3
 CLASS I, DIV 2, GROUPS A, B, C, D T3
 -25C <= TAMB <= 40C

Additional Information:

2P - TS 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: 44BD0135A

Marks:

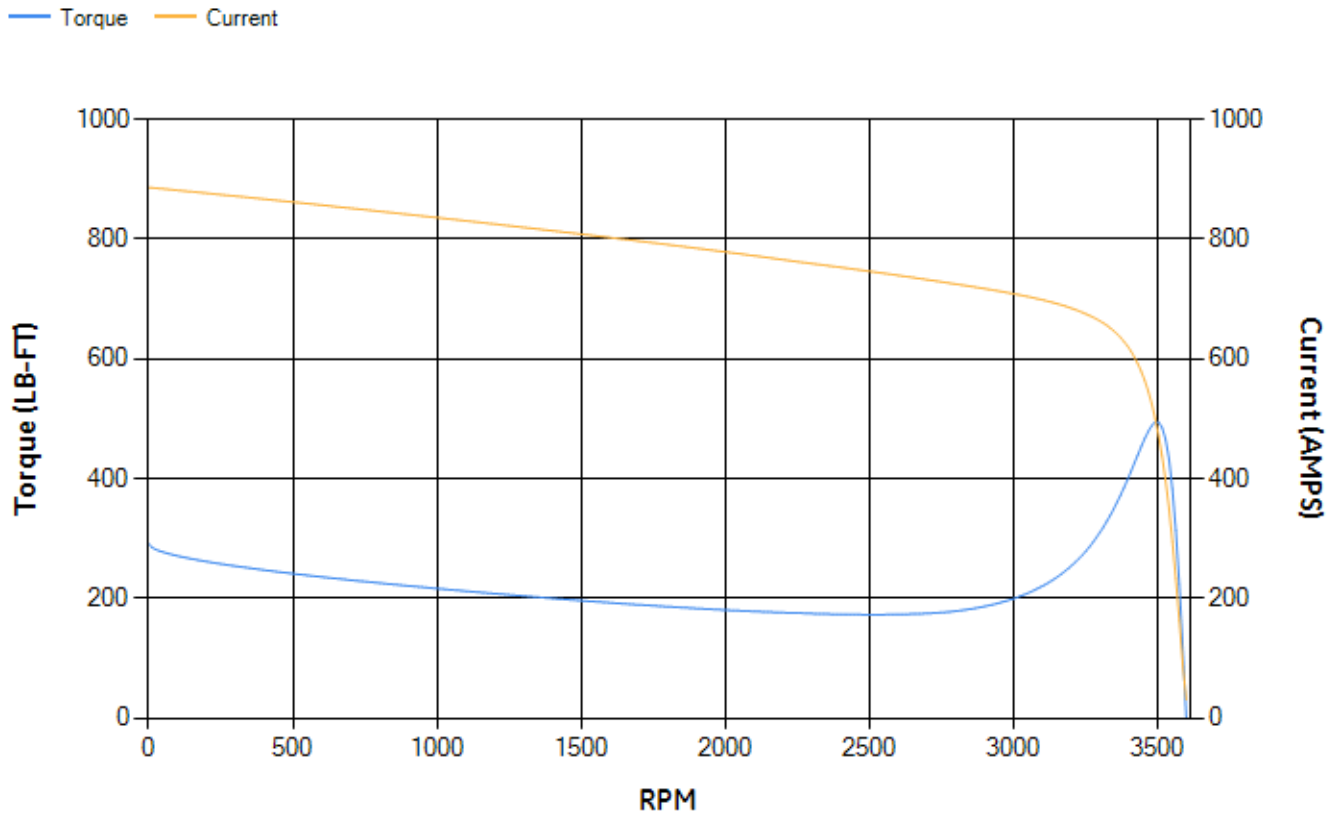
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.96	95.07	95.36	95.01	94.11	90.49	0.00
% PF	91.17	91.29	91.22	90.03	85.81	70.47	9.23
AMPS	168.92	155.02	134.51	102.58	72.43	45.86	30.38

TORQ(FL)#FT	183.33	TORQ(LR)%FL	158.78	TORQ(BD)%FL	270.01
AMPS(LR)	886.31	PF AT START	0.22		

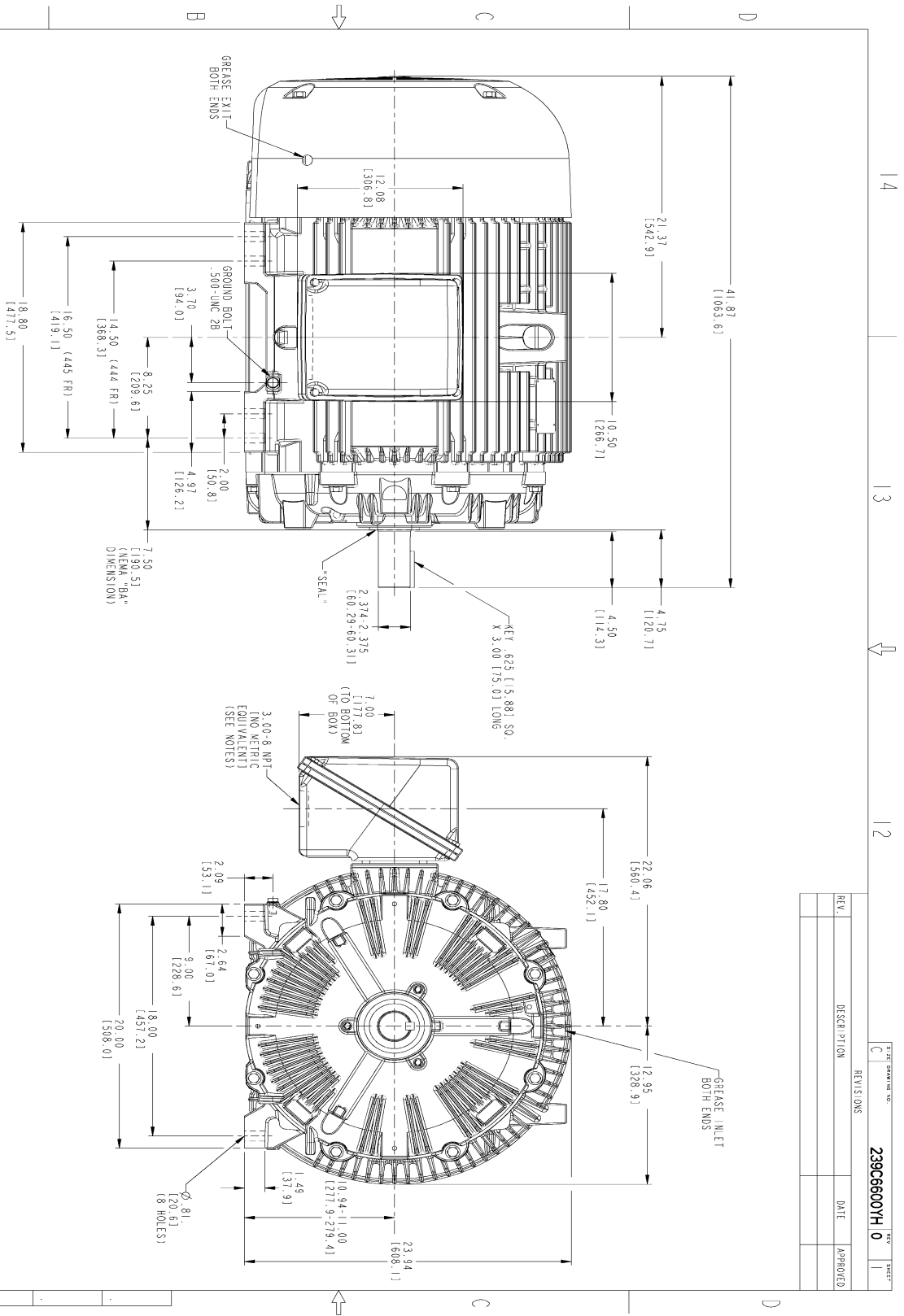
This motor is capable of two cold or one hot start with a maximum connected load inertia of 600 Lb-Ft Sq (25.26 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 46 seconds. Safe stall time at 100% voltage is 87 seconds cold, 55 seconds hot. Rotor inertia is 31.32 Lb-Ft Sq (1.32 Kg-meter Sq).

Open Circuit A-C:	2.095	Short Circuit D-C:	0.04
Short Circuit A-C:	0.075	X/R Ratio:	14.964
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)

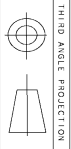


Marks:



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).
5. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RUNOUT IS .0015 T.I.R.



REV.	DESCRIPTION	DATE	APPROVED

MODEL	TEKAM	DATE	
SERIAL	TEKAM	06/29/15	
ORDER	HAERMAN	06/29/15	
REQ	VENAF	06/29/15	
DRAWN	TEKAM	06/29/15	
CHECKED			
SCALE: 0.200			
REF. NO.: 239C66004H			
SHEET 1 OF 1			

GENERAL ELECTRIC COMPANY

OUTLINE

444/445 TS TFFC XSD 841

700 CU IN CONDUIT BOX, 0015 SHAFT RUNOUT

239C6600YH 0

DISTRIBUTION: MMP

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4354AA1	115E4354LL1
Bearing	235A2616AA01	235A2616AA01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6841AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	