

Product Information Packet

November 8, 2016

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

Model Number:	5KS364XAA408D4
Catalog Number:	M9449
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6200RC

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

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS364XAA408D4	Estimated Weight:	960 Lbs
Outline Drawing:	239C6200RC	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	36BD4024A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	364T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	91.7 %
Output Power:	30HP 22.2KW	Guaranteed Efficiency:	91.0
RPM:	885	3/4 Load Efficiency:	92.2
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	17.3
Amps - FL:	43.4	Power Factor:	70.5
Service Factor:	1.15	Bearing - DE:	6314ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 70BC03JP30, ODE BRG 70BC03JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS364XAA408D4 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 260C 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 6-60 HZ, CHP 60-90 HZ.

Additional Information:

8P - T EXTN
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 346 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: 36BD4024A

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.25	91.6	92.2	92.25	91.45	87.1	0.00
% PF	74.68	73.4	70.71	63.45	50.89	30.8	3.28
AMPS	51.51	48.03	42.87	35.98	30.16	26.17	24.2

TORQ(FL)#FT 177.5
AMPS(LR) 201.21

TORQ(LR)%FL 163
PF AT START 0.37

TORQ(BD)%FL 237.2

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3251 Lb-Ft Sq (136.87 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 44 seconds. Safe stall time at 100% voltage is 126 seconds cold, 67 seconds hot. Rotor inertia is 17.26 Lb-Ft Sq (0.73 Kg-meter Sq).

Open Circuit A-C: 0.295

Short Circuit D-C: 0.016

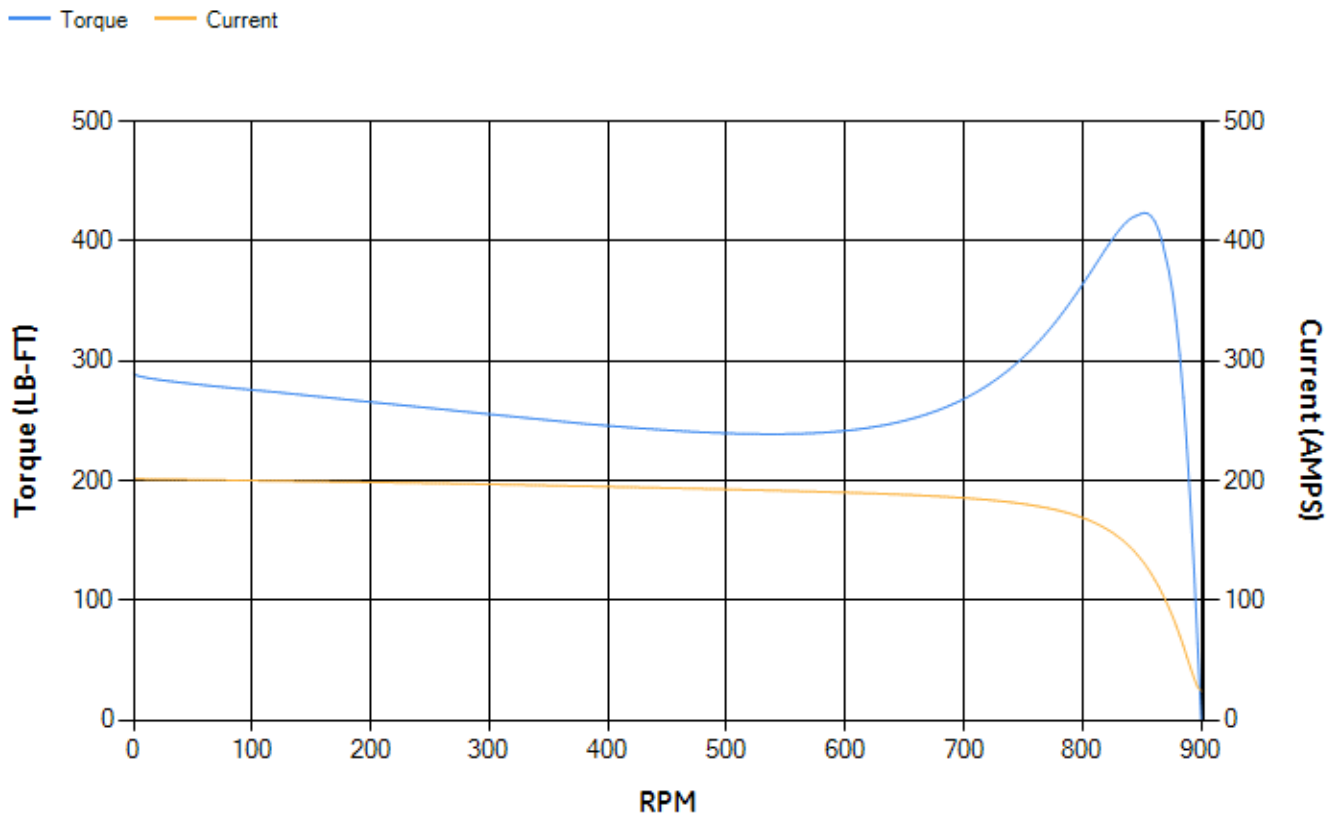
Short Circuit A-C: 0.029

X/R Ratio: 5.886

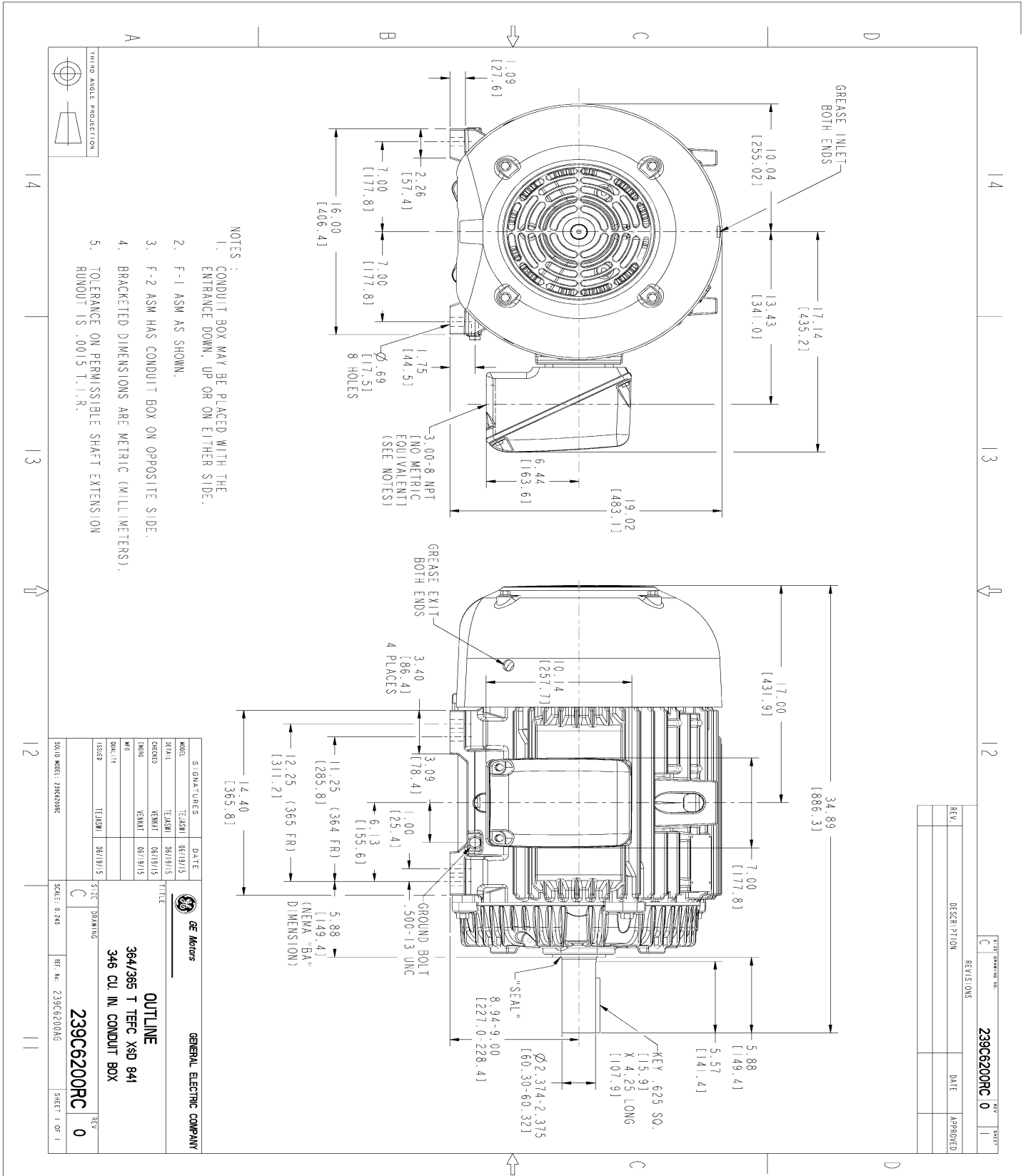
Stator Slots: 72

Rotor Slots: 58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE	
DESIGN	TEJSMI	06/18/15	
DRG CDD	VENKI	06/18/15	
DRG	VENKI	06/18/15	
DRG	VENKI	06/18/15	
DRG	TEJSMI	06/18/15	
TITLE			
OUTLINE			
364/365 T TFC XSD 841			
346 CU IN. CONDUIT BOX			
239C6200RC			
SCALE: 0.240			
REF. NO: 239C6200AG			
SHEET 1 OF 1			

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4250AA1	115E4250LK1
Bearing	235A2616AA01	235A2616AA01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G01
Fan Cover	128D6810AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	