

Product Information Packet

November 9, 2016

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

Model Number:	5KS405XAA114D1
Catalog Number:	M8918
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6400RA

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:	5KS405XAA114D1	Estimated Weight:	1510 Lbs
Outline Drawing:	239C6400RA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	40BD0052B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	405TS	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.0 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	94.5
RPM:	3565	3/4 Load Efficiency:	95.5
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	16.6
Amps - FL:	86.6	Power Factor:	91.0
Service Factor:	1.15	Bearing - DE:	6213ZC3
Alt Service Factor:	--	Bearing - ODE:	6213ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 65BC02JP30, ODE BRG 65BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS405XAA114D1 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 215 C VT OR 230 C CT OR --- C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 8.6-60 HZ, CHP --- HZ.
 EXCEPTION TO IEEE-STD-841-2009:SOUND POWER 92 DBA

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: 40BD0052B

Marks:

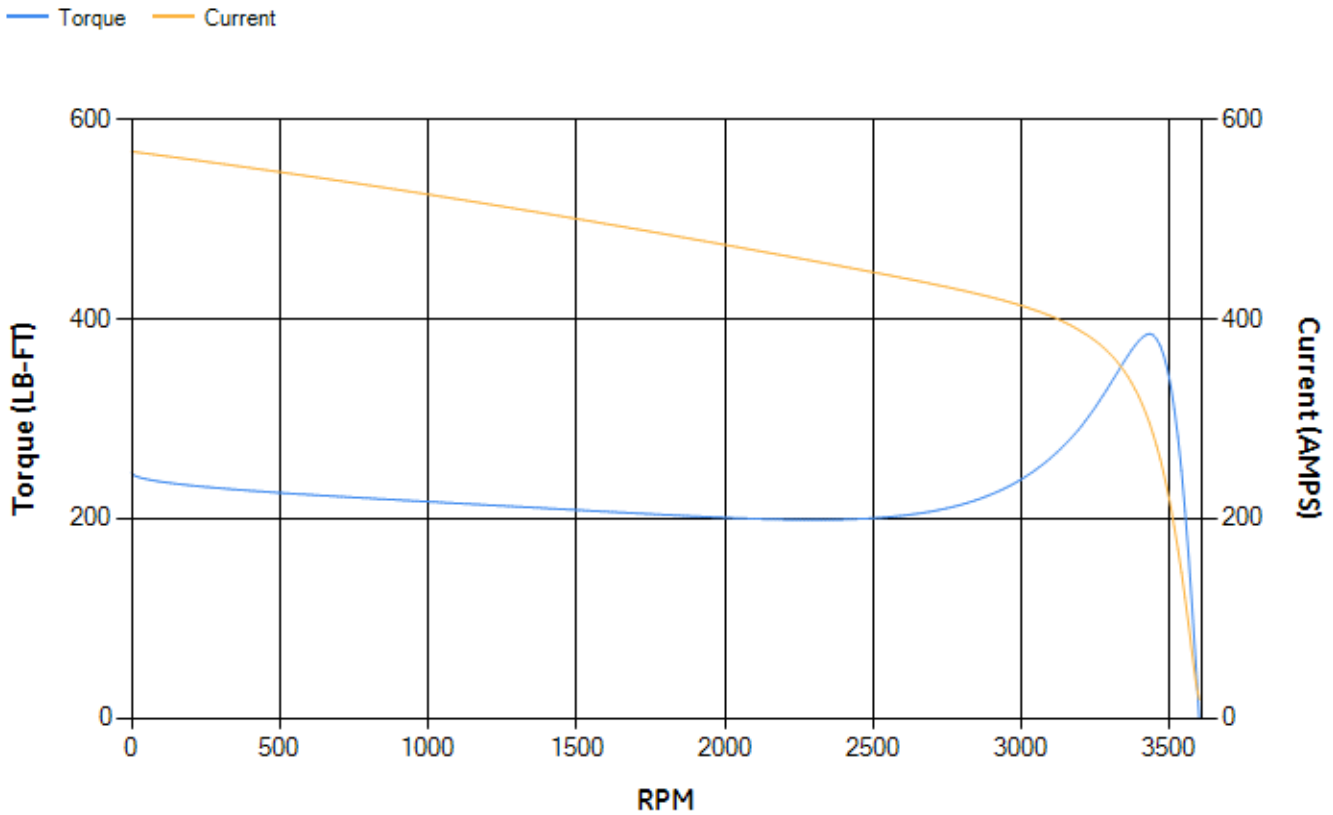
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.68	94.92	95.41	95.46	95.13	92.77	0.00
% PF	90.94	91.16	91.23	90.29	86.38	71.3	6.81
AMPS	108.71	99.51	86.03	65.16	45.56	28.3	18.47

TORQ(FL)#FT	147.36	TORQ(LR)%FL	166.76	TORQ(BD)%FL	261.06
AMPS(LR)	567.72	PF AT START	0.25		

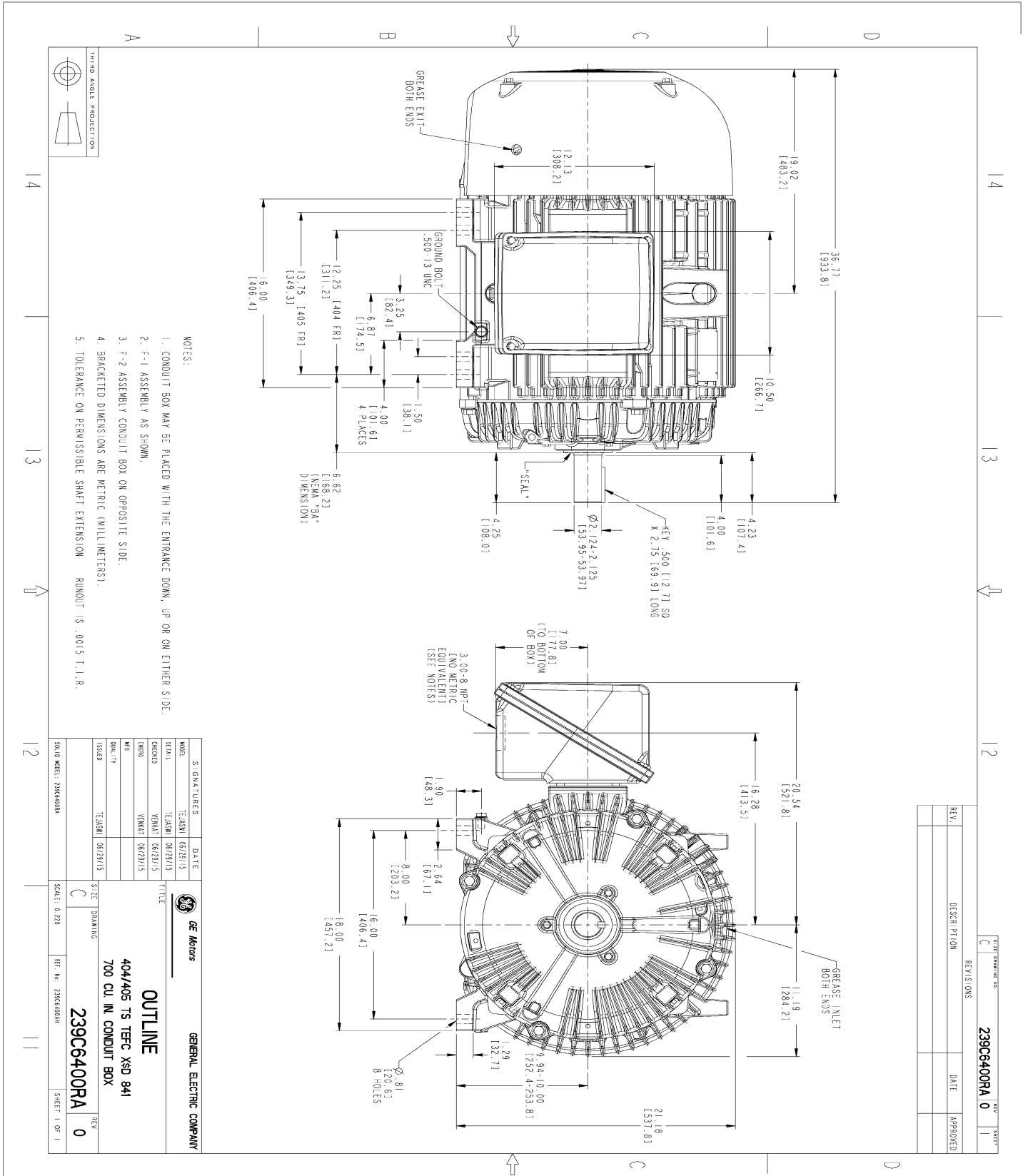
This motor is capable of two cold or one hot start with a maximum connected load inertia of 356 Lb-Ft Sq (14.99 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 24 seconds. Safe stall time at 100% voltage is 58 seconds cold, 29 seconds hot. Rotor inertia is 15.17 Lb-Ft Sq (0.64 Kg-meter Sq).

Open Circuit A-C:	1.213	Short Circuit D-C:	0.03
Short Circuit A-C:	0.043	X/R Ratio:	11.399
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 RIMOUT IS .0015 T.I.R.

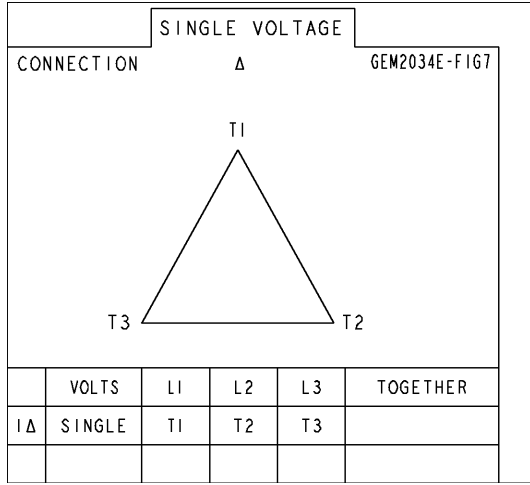
REV.	DESCRIPTION	DATE	APPROVED

MODEL	TEASHI	DATE	6/29/15
SIGNATURES	TEASHI	DATE	6/29/15
DESIGNED	VENKAT	DATE	6/29/15
DRAWN	VENKAT	DATE	6/29/15
CHECKED	VENKAT	DATE	6/29/15
APPROVED	TEASHI	DATE	6/29/15
TITLE	GENERAL ELECTRIC COMPANY		
SCALE	SCALE: 0.250		
REF. NO.	239C6400RA		
SHEET	SHEET 1 OF 1		

OUTLINE
 404/405 TS TEFC XSD 941
 700 CU. IN. CONDUIT BOX
 239C6400RA

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4305AA1	115E4305LL1
Bearing	235A2617AA01	235A2617AA01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA11
Fan Cover	128D6832AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	