GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

January 31, 2021

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

Model Number:	**5KS405SAA118D12**
Catalog Number:	**M9510**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6400ZK

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:	**5KS405SAA118D12**	**Estimated Weight:**	1510 Lbs
Outline Drawing:	239C6400ZK	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	40BD0052A	**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:**	--
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	17.1
Amps - FL:	108.0	**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:

IEEE-STD-841-2009
DE BRG 65BC02JP30, ODE BRG 65BC02JP30
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS405SAA118D12 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
SURF TEMP 260C AT 1.15SF ON SINE-WAVE PWR
OR 215C VT OR 230C CT OR -- CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0-60 HZ, CT 8.6-60 HZ, CHP -- HZ.

Additional Information:

2P - TS EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
GROUND PAD
F1 MOUNTING

Performance Characteristics 1st Winding 1st Connection **Design: 40BD0052A**

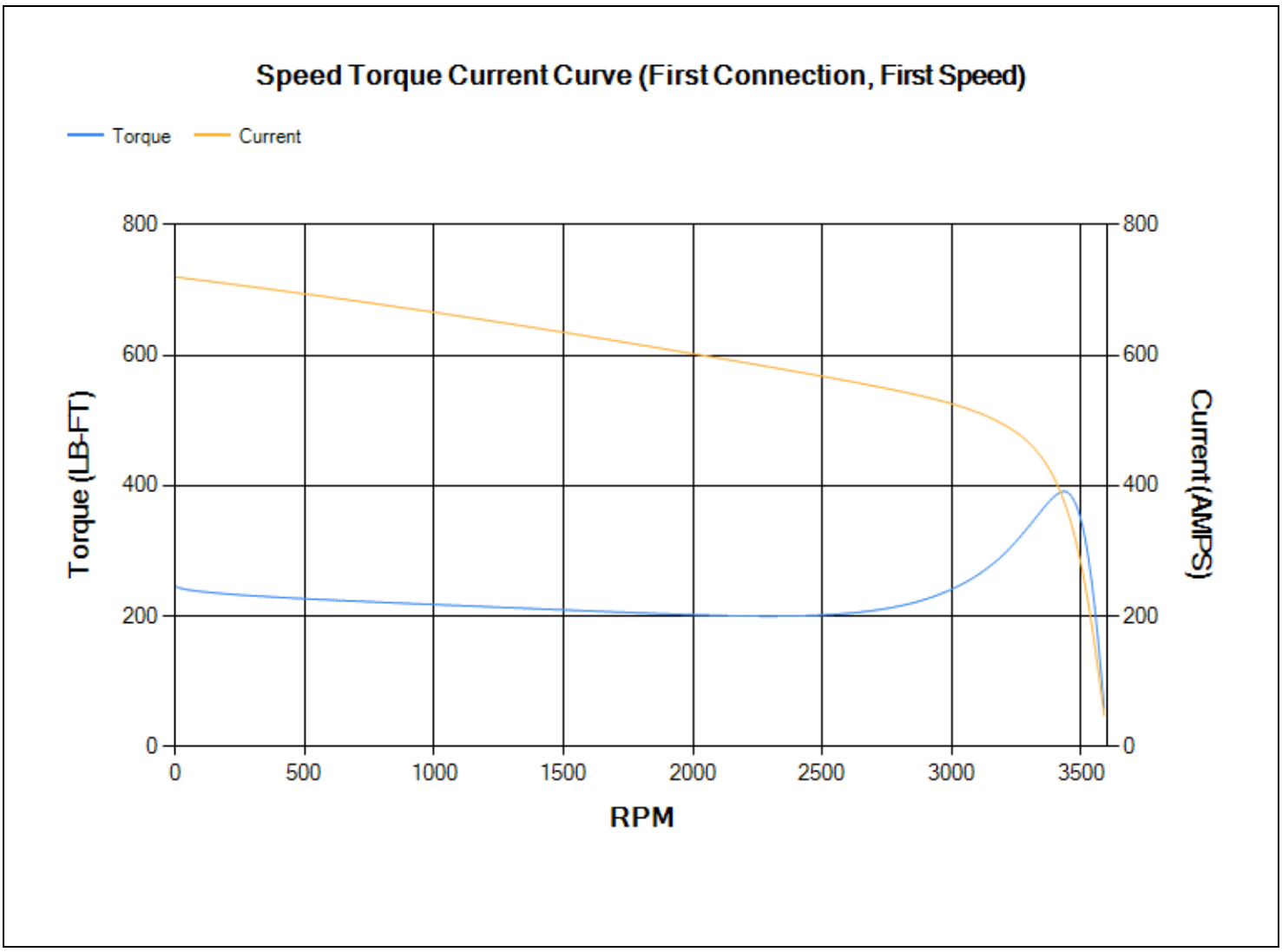
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.74	94.97	95.45	95.48	95.12	92.72	0.00
% PF	90.92	91.11	91.12	90.05	85.92	70.37	6.67
AMPS	135.81	124.39	107.62	81.65	57.26	35.86	23.79

TORQ(FL)#FT	147.31	**TORQ(LR)%FL**	167.5	**TORQ(BD)%FL**	265.45
AMPS(LR)	720.25	**PF AT START**	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 362 Lb-Ft Sq (15.24 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 15.02 Lb-Ft Sq (0.63 Kg-meter Sq).

Open Circuit A-C:	1.211	**Short Circuit D-C:**	0.03
Short Circuit A-C:	0.044	**X/R Ratio:**	11.377
Stator Slots:	48	**Rotor Slots:**	38



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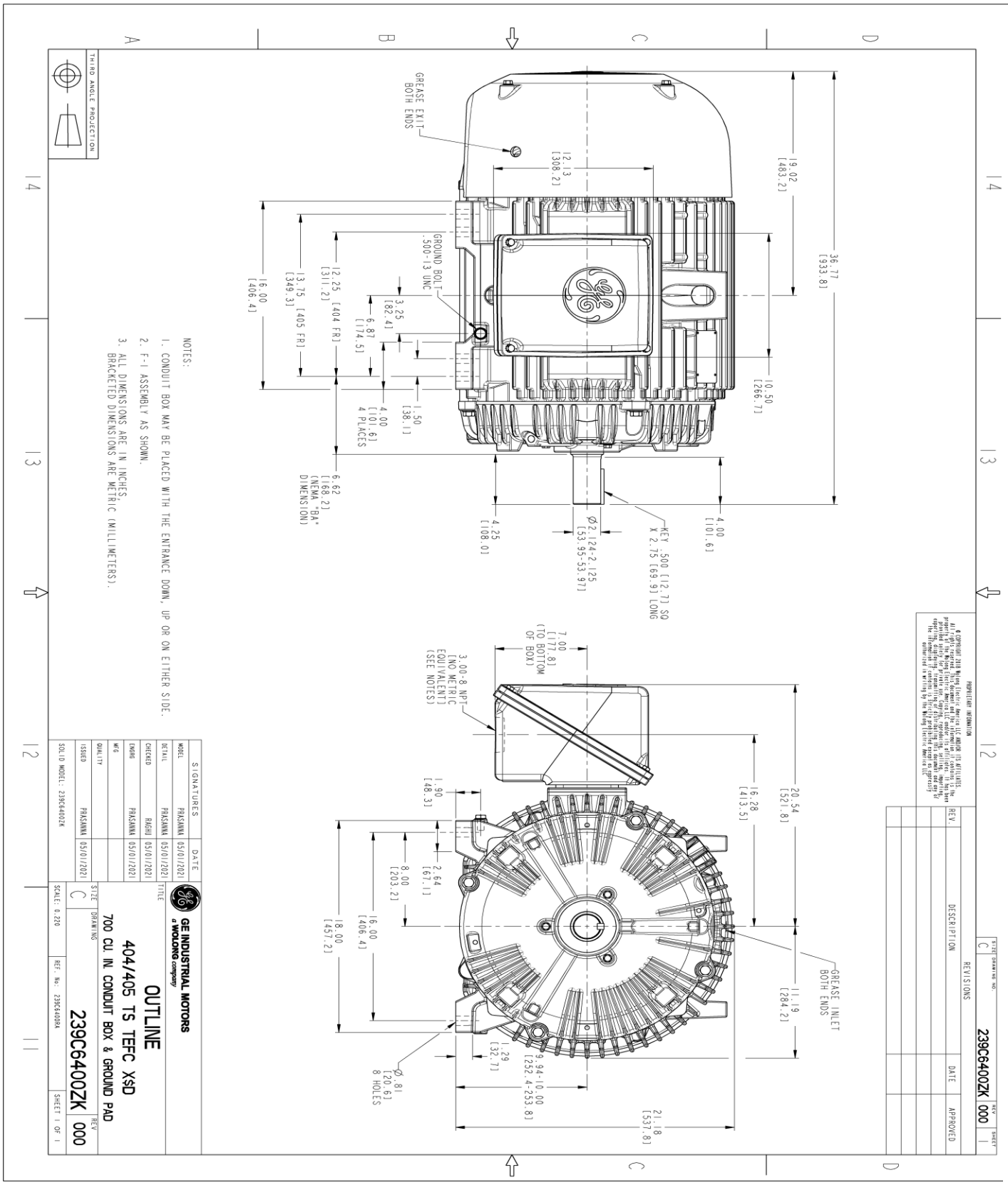

NOTES:

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. ALL DIMENSIONS ARE IN INCHES.
   BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

REV.	DESCRIPTION	DATE	APPROVED

REVISIONS

SIZE	DRAWING NO.	REV	SHEET
C	239C6400ZK	000	1

THIRD ANGLE PROJECTION

SIGNATURES		DATE
MODEL	PRASANNA	05/01/2021
DETAIL	PRASANNA	05/01/2021
CHECKED	RAGHU	05/01/2021
ENGRG	PRASANNA	05/01/2021
MFG		
QUALITY		
ISSUED	PRASANNA	05/01/2021

SOLID MODEL: 239C6400ZK

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TITLE: OUTLINE
404/405 TS TEFC X&D
700 CU. IN. CONDUIT BOX & GROUND PAD

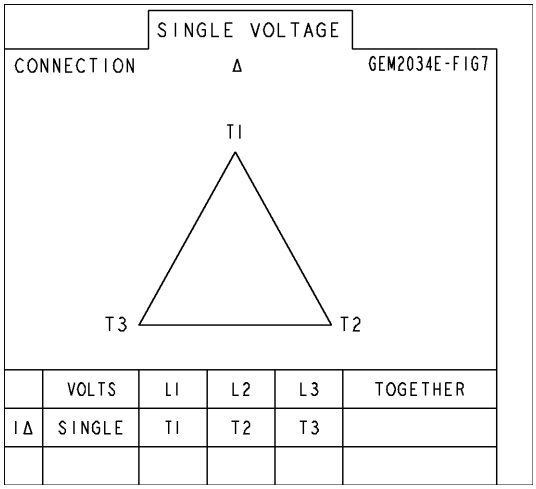
SIZE	DRAWING	REV
C	239C6400ZK	000

SCALE: 0.220 | REF. No.: 239C6400RA | SHEET 1 OF 1

Marks:

Connection Diagram

GEM2034E-FIG7



	VOLTS	L1	L2	L3	TOGETHER
1Δ	SINGLE	T1	T2	T3	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4305AA1	115E4305LL1
Bearing	235A2517AC01	235A2517AC01
Slinger/Inproseal	149C4399G05	149C4399G05

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	