GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

November 9, 2020

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

Model Number:	**5KS215XAA208D2**
Catalog Number:	**M9431**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5821PAP5311

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

Table of Contents

Marks:

MODEL NUMBER:	**5KS215XAA208D2**	**Estimated Weight:**	220 Lbs
Outline Drawing:	4002B5821PAP5311	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	21BD1267A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	215T	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	91.7 %
Output Power:	10HP 7.4KW	**Guaranteed Efficiency:**	91.0 %
RPM:	1770	**3/4 Load Efficiency:**	92.5 %
Voltage:	460	**KVA Code:**	H
Hertz:	60	**Max KVAR:**	3.1
Amps - FL:	12.2	**Power Factor:**	83.5
Service Factor:	1.15	**Bearing - DE:**	6208ZC3
Alt Service Factor:	--	**Bearing - ODE:**	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
DE BRG 40BC02JP30 ODE BRG 40BC02JP30
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS215XAA208D2 S/N: XXX
CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
CL1ZONE2 AEXNAIIC 200 C; CL1DIV2 GRP ABCD 200 C
IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
SURF TEMP 200 C AT 1.15 SF ON SINE-WAVE PWR
OR 200 C VT OR 200 C CT OR 200 C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0 SF 40 C AMB
VT 0-60 HZ, CT 3-60 HZ, CHP 60-90 HZ.

Additional Information:

4P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 55 CU IN-1.00 NPT
F1 CONDUIT BOX MOUNTING
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL BOTH ENDS
GROUND SCREW ON FRAME
SHAFT RUNOUT LIMIT .001" TIR
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS, AND PLUG THREADS
OIL RESISTANT SLEEVING ON LEADS

Performance Characteristics 1st Winding 1st Connection **Design: 21BD1267A**

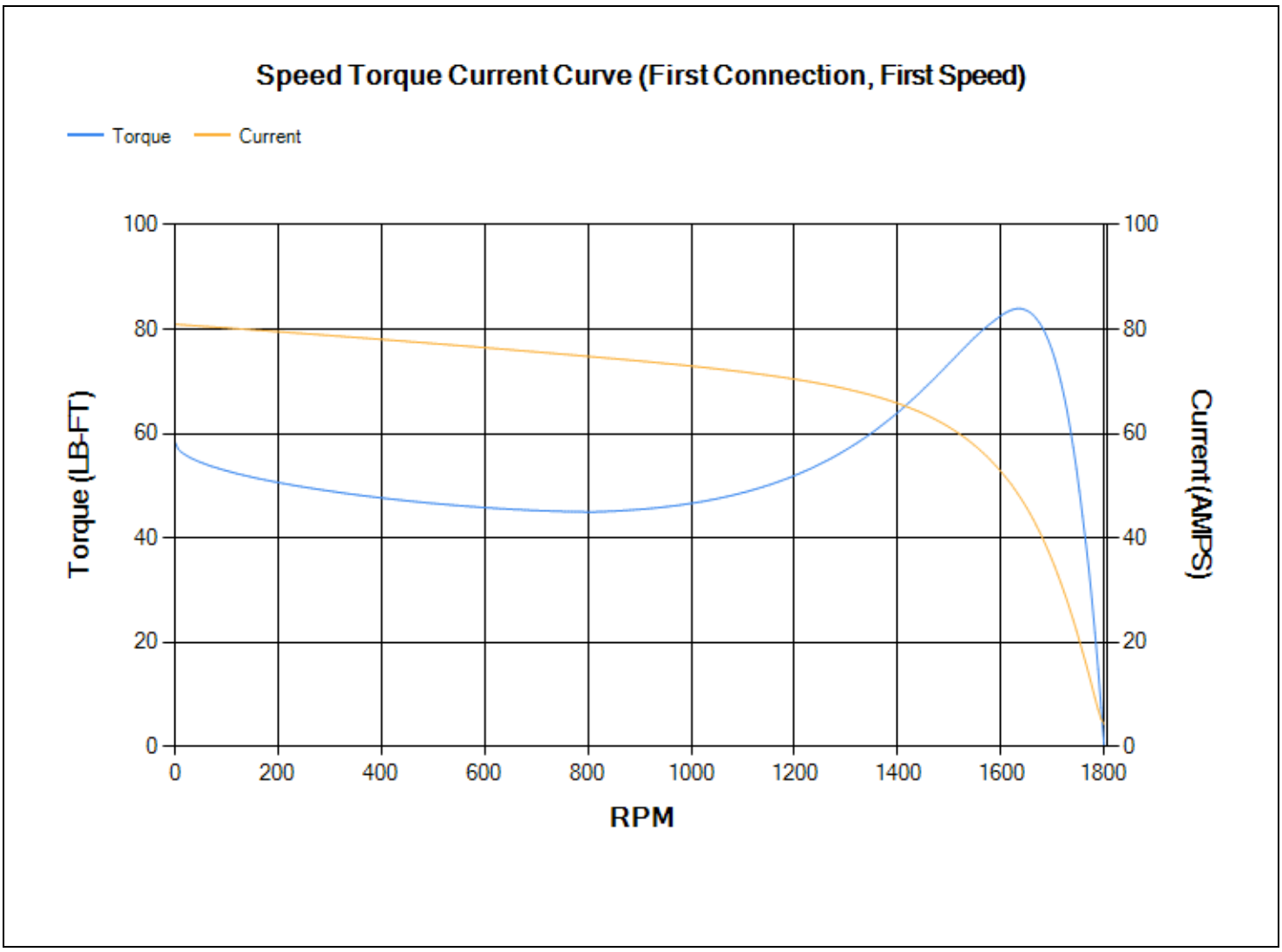
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.62	91.16	92.02	92.49	92.22	88.9	0.00
% PF	84.19	84.08	83.37	80.09	71.64	50.56	5.78
AMPS	15.33	14.04	12.2	9.48	7.08	5.21	4.28

TORQ(FL)#FT	29.7	**TORQ(LR)%FL**	196.58	**TORQ(BD)%FL**	280.86
AMPS(LR)	80.95	**PF AT START**	0.4		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 376 Lb-Ft Sq (15.83 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 49 seconds. Safe stall time at 100% voltage is 109 seconds cold, 74 seconds hot. Rotor inertia is 1.12 Lb-Ft Sq (0.05 Kg-meter Sq).

Open Circuit A-C:	0.421	**Short Circuit D-C:**	0.014
Short Circuit A-C:	0.02	**X/R Ratio:**	5.093
Stator Slots:	36	**Rotor Slots:**	28



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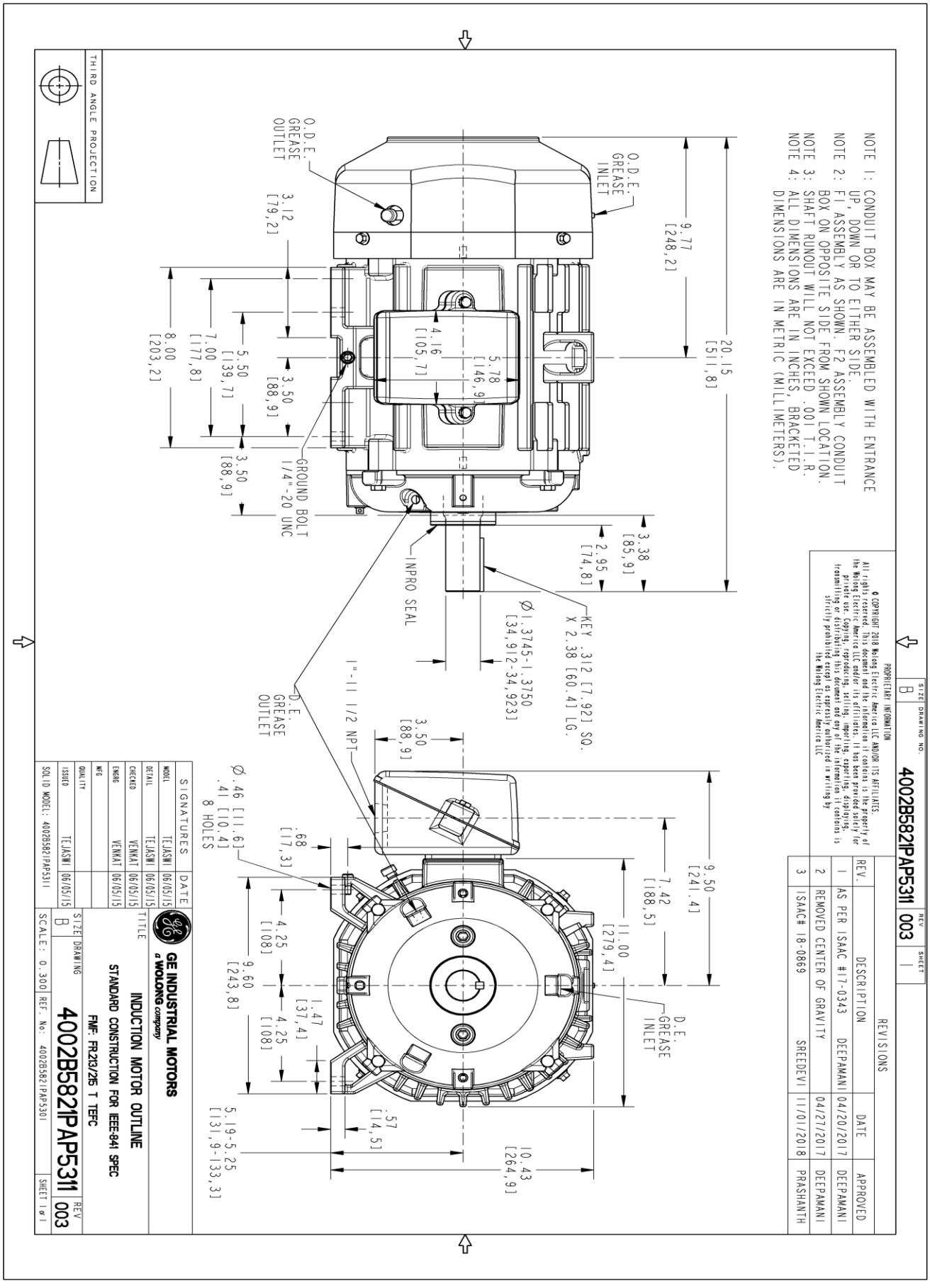

PROPRIETARY INFORMATION

SIZE B | DRAWING NO. 4002B5821PAP5311 | REV 003 | SHEET 1

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
1	AS PER ISAAC #17-0343 DEEPAMANI	04/20/2017	DEEPAMANI
2	REMOVED CENTER OF GRAVITY SREEDEVI	04/27/2017	DEEPAMANI
3	ISAAC# 18-0869	11/01/2018	PRASHANTH

THIRD ANGLE PROJECTION

SIGNATURES		DATE
MODEL	TEJASWI	06/05/15
DETAIL	TEJASWI	06/05/15
CHECKED	VENKAT	06/05/15
ENGRG	VENKAT	06/05/15
MFG		
QUALITY		
ISSUED	TEJASWI	06/05/15

SOLID MODEL: 4002B5821PAP5311

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TITLE: INDUCTION MOTOR OUTLINE
STANDARD CONSTRUCTION FOR IEEE-841 SPEC
FMF: FR213/215 T TEFC

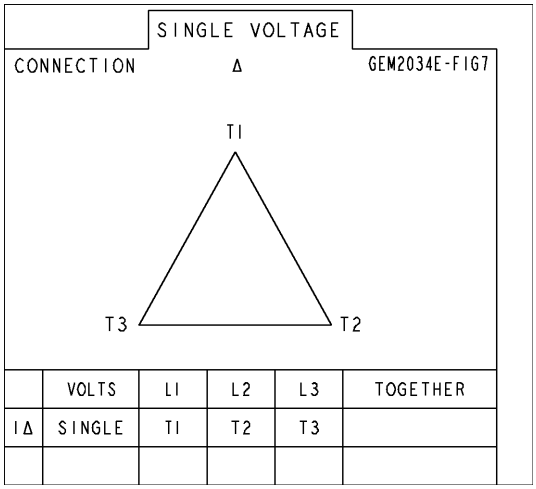
SIZE B | DRAWING 4002B5821PAP5311 | REV 003

SCALE: 0.300 | REF: No: 4002B5821PAP5301 | 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	4004D5282PB1	4004D5282SJ1
Bearing	235A2503AE01	235A2503AE01
Slinger/Inproseal	4002B5914AF3	4002B5914AG3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G01
Fan Cover	4003C5787PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	