GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

February 19, 2021

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

Model Number:	**5KS445SAA114D5**
Catalog Number:	**M8955**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6H00AH

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:	**5KS445SAA114D5**	**Estimated Weight:**	1990 Lbs
Outline Drawing:	239C6H00AH	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	44BD0196B	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	445TS	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	95.0 %
Output Power:	150HP 111KW	**Guaranteed Efficiency:**	94.5 %
RPM:	3575	**3/4 Load Efficiency:**	--
Voltage:	575	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	25.8
Amps - FL:	130.0	**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:

IEEE-STD-841-2009
DE BRG 70BC03JP30, ODE BRG 70BC03JP30
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS445SAA114D5 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 200C AT 1.15SF ON SINE-WAVE PWR
OR 200C VT OR 230C CT OR --- C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0 - 60 HZ, CT 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: 44BD0196B**

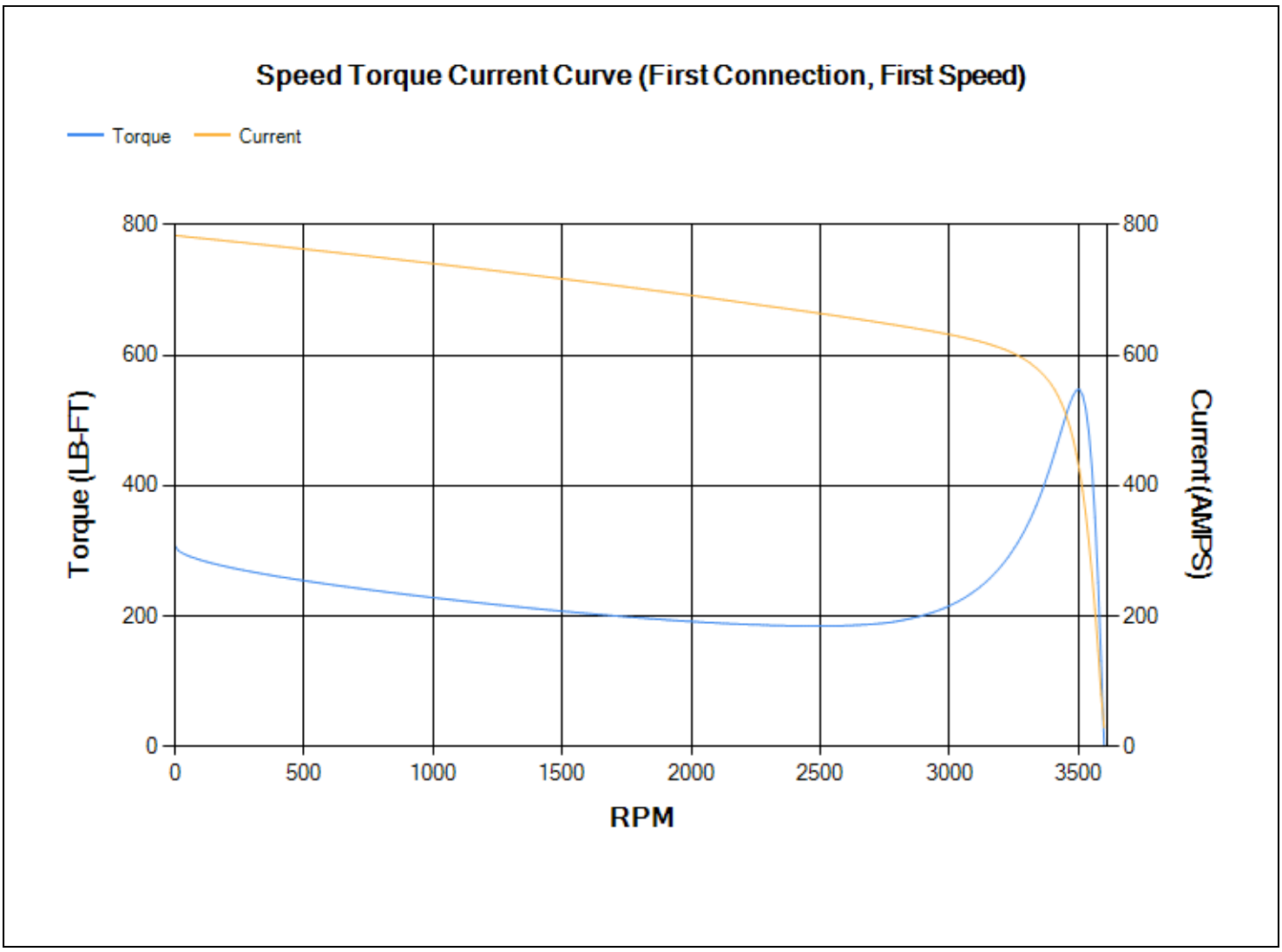
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.71	94.89	95.29	95.15	94.52	91.47	0.00
% PF	90.58	90.81	90.86	89.85	85.79	70.49	8.1
AMPS	163.64	149.89	129.73	98.53	69.25	43.54	28.83

TORQ(FL)#FT	220.19	**TORQ(LR)%FL**	139.86	**TORQ(BD)%FL**	248.82
AMPS(LR)	783.78	**PF AT START**	0.21		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 455 Lb-Ft Sq (19.16 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 34 seconds. Safe stall time at 100% voltage is 79 seconds cold, 41 seconds hot. Rotor inertia is 29.46 Lb-Ft Sq (1.24 Kg-meter Sq).

Open Circuit A-C:	1.859	**Short Circuit D-C:**	0.036
Short Circuit A-C:	0.072	**X/R Ratio:**	13.715
Stator Slots:	48	**Rotor Slots:**	38



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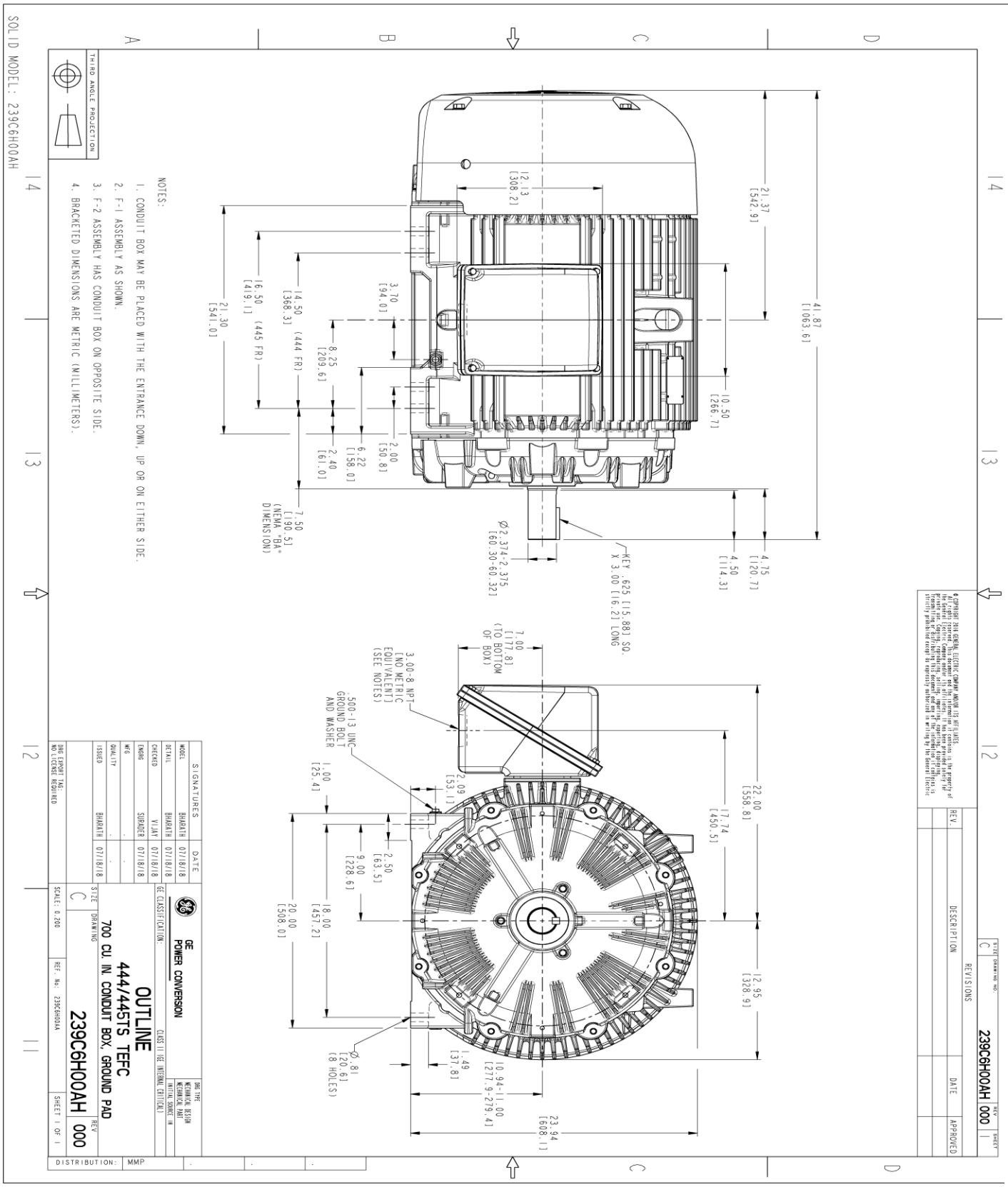
SOLID MODEL: 239C6H00AH
THIRD ANGLE PROJECTION
NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).
21.37 [542.9]
12.13 [308.2]
41.87 [1063.6]
10.50 [266.7]
21.30 [541.0]
16.50 [419.1] (445 FR)
14.50 [368.3] (444 FR)
3.70 [94.0]
8.25 [209.6]
6.22 [158.0]
2.00 [50.8]
2.40 [61.0]
7.50 [190.5] (NEMA "BA" DIMENSION)
Ø2.374-2.375 [60.30-60.32]
KEY .625 [15.88] SQ. X 3.00 [76.2] LONG
4.75 [120.7]
4.50 [114.3]
7.00 [177.8] (TO BOTTOM OF BOX)
3.00-8 NPT [NO METRIC EQUIVALENT] (SEE NOTES)
.500-13 UNC GROUND BOLT AND WASHER
1.00 [25.4]
2.09 [53.1]
22.00 [558.8]
17.74 [450.5]
12.95 [328.9]
2.50 [63.5]
9.00 [228.6]
18.00 [457.2]
20.00 [508.0]
Ø.81 [20.6] (8 HOLES)
1.49 [37.8]
10.94-11.00 [277.9-279.4]
23.94 [608.1]
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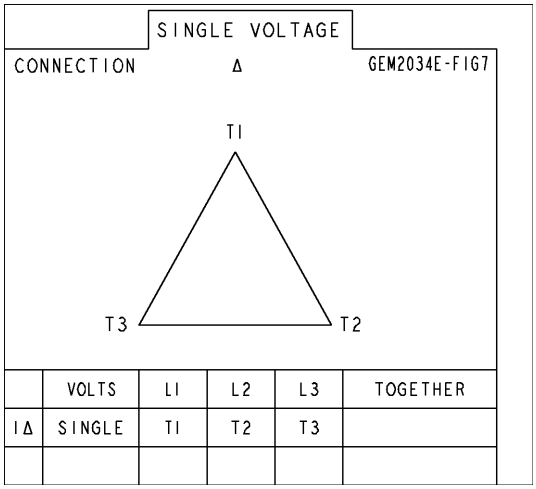
REVISIONS
REV. | DESCRIPTION | DATE | APPROVED
SIZE C | DRAWING NO. 239C6H00AH | REV 000 | SHEET 1
SIGNATURES
MODEL BHARATH 07/18/18
DETAIL BHARATH 07/18/18
CHECKED VIJAY 07/18/18
ENGRG SUDAER 07/18/18
MFG
QUALITY
ISSUED BHARATH 07/18/18
DATE
GE POWER CONVERSION
GE CLASSIFICATION:
CLASS I (GE: INTERNAL CRITICAL)
DRG TYPE
MECHANICAL DESIGN
MECHANICAL PART
INITIAL SOURCE: FW
OUTLINE
444/445TS TEFC
700 CU. IN. CONDUIT BOX, GROUND PAD
SIZE C
DRAWING 239C6H00AH
REV 000
SCALE: 0.200
REF. No: 239C6H00AA
SHEET 1 OF 1
DUAL EXPORT TAG: NOT LICENSE REQUIRED
DISTRIBUTION: MMP

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	115E4354AA1	115E4354LL1
Bearing	235A2516AC01	235A2516AC01
Slinger/Inproseal	149C4399G05	149C4399G05

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6841MA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	