



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 25, 2020

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

Model Number:	5KS445XAA114D3
Catalog Number:	M8920
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6H00AC

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:	5KS445XAA114D3	Estimated Weight:	1990 Lbs
Outline Drawing:	239C6H00AC	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:	95.2 %
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	25.7
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:

EXCEPTION TO IEEE-STD-841-2009: SOUND POWER 92 DBA
 DE BRG 70BC03JP30, ODE BRG 70BC03JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS445XAA114D3 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 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
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: 44BD0196B

Marks:

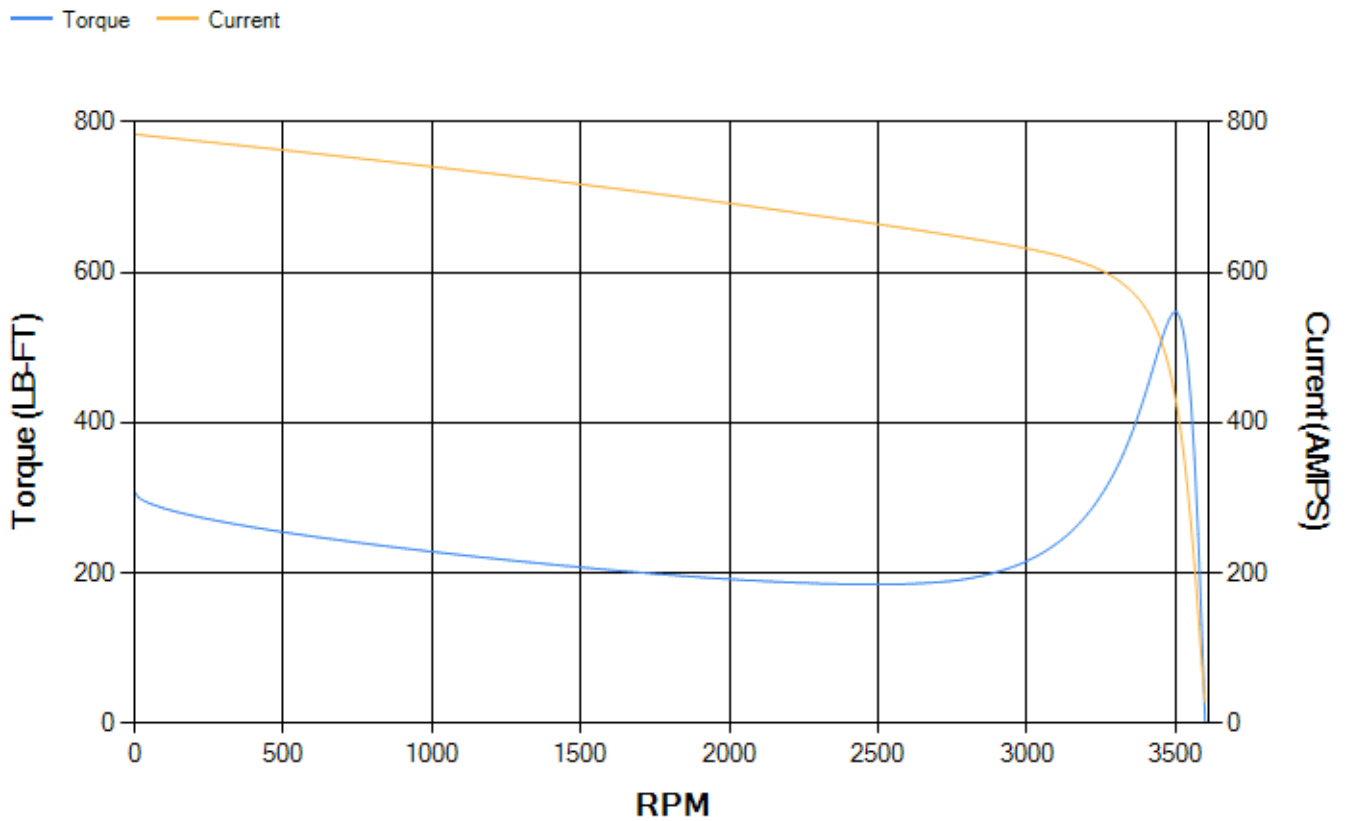
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.71	94.89	95.29	95.15	94.52	91.47	0.00
% PF	90.58	90.81	90.86	89.85	85.79	70.49	8.1
AMPS	163.64	149.89	129.73	98.53	69.25	43.54	28.83

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

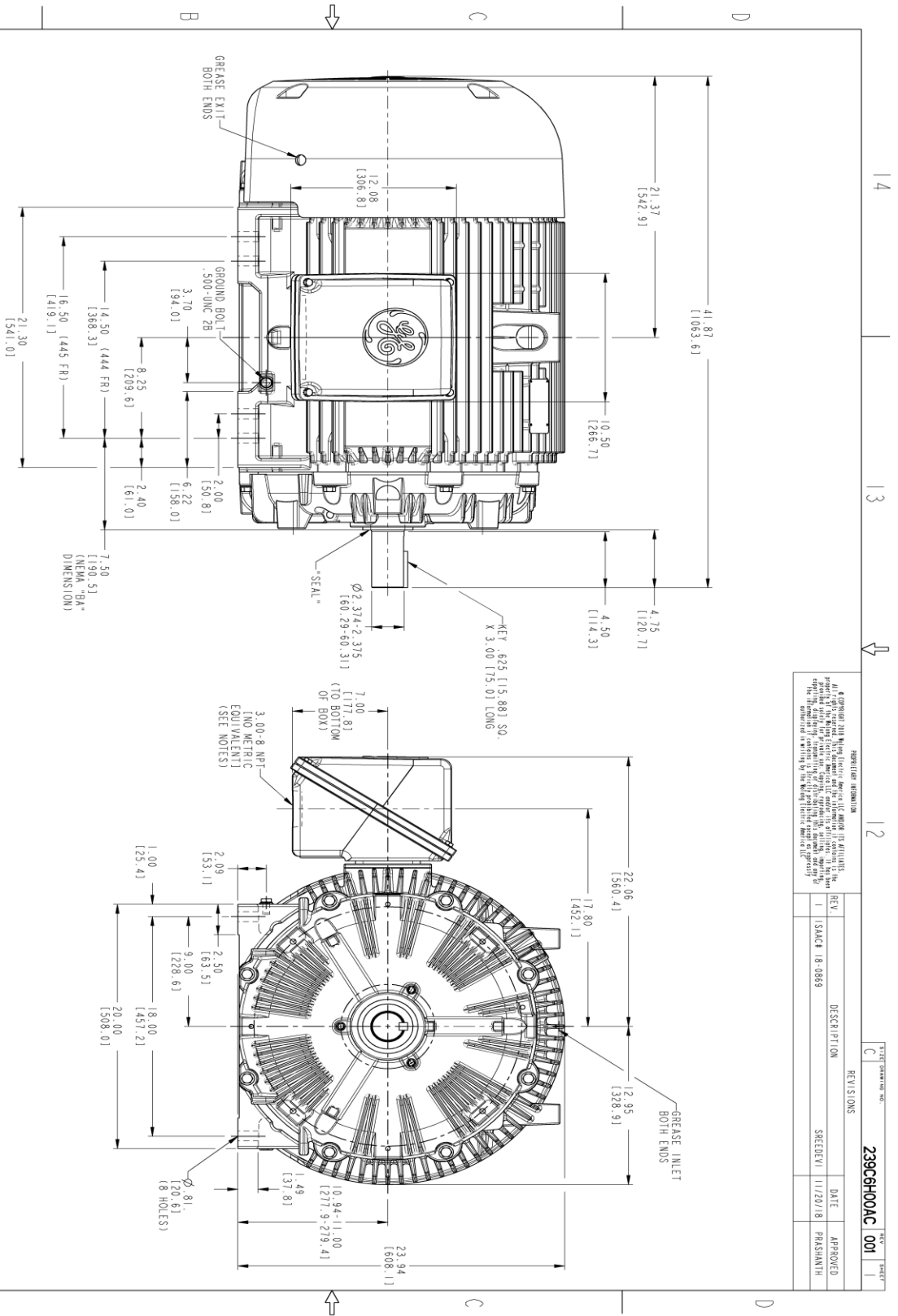
This motor is capable of two cold or one hot start with a maximum connected load inertia of 455 Lb-Ft Sq (19.16 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 34 seconds. Safe stall time at 100% 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

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 RUNOUT IS .0015 T.I.R.

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REV.	DESCRIPTION	DATE	APPROVED
1	ISACH 18-0869	11/20/18	PRASHANTH



THIRD ANGLE PROJECTION

SIGNATURES	DATE	TITLE
MODEL: MGRALU	11/09/17	<p>GE INDUSTRIAL MOTORS a WOLONG company</p> <p>OUTLINE</p> <p>444/445 TS TEFC XSD 841</p> <p>700 CU. IN. CONDUIT BOX, 0015 SHAFT RUNOUT</p> <p>239C6H00AC</p> <p>REV. 001</p>
CHECKED: RAVI N	11/09/17	
DESIGN: RAVI N	11/09/17	
DATE: RAVI N	11/09/17	

SCALE: 0.200 REF. No: 239C6H001H SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4354AA1	115E4354LL1
Bearing	235A2516AC01	235A2516AC01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6841AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

