



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:	5KS445XAA218B
Catalog Number:	M9616
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6600YH

Accessory Connection Diagrams

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

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

MODEL NUMBER:	5KS445XAA218B	Estimated Weight:	1970 Lbs
Outline Drawing:	239C6600YH	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	44BD1157A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	445TS	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	95.4 %
RPM:	1780	3/4 Load Efficiency:	96.1 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	42.4
Amps - FL:	169.0	Power Factor:	86.5
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 90BC03JP3, ODE BRG 90BC03JP3

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS445XAA218B 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 200 C VT OR 230 C CT OR 200 C CHP PWM CONTROL

ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB

VT 0-60 HZ, CT 15-60 HZ, CHP 60-90 HZ.



Additional Information:

4P - 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: 44BD1157A

Marks:

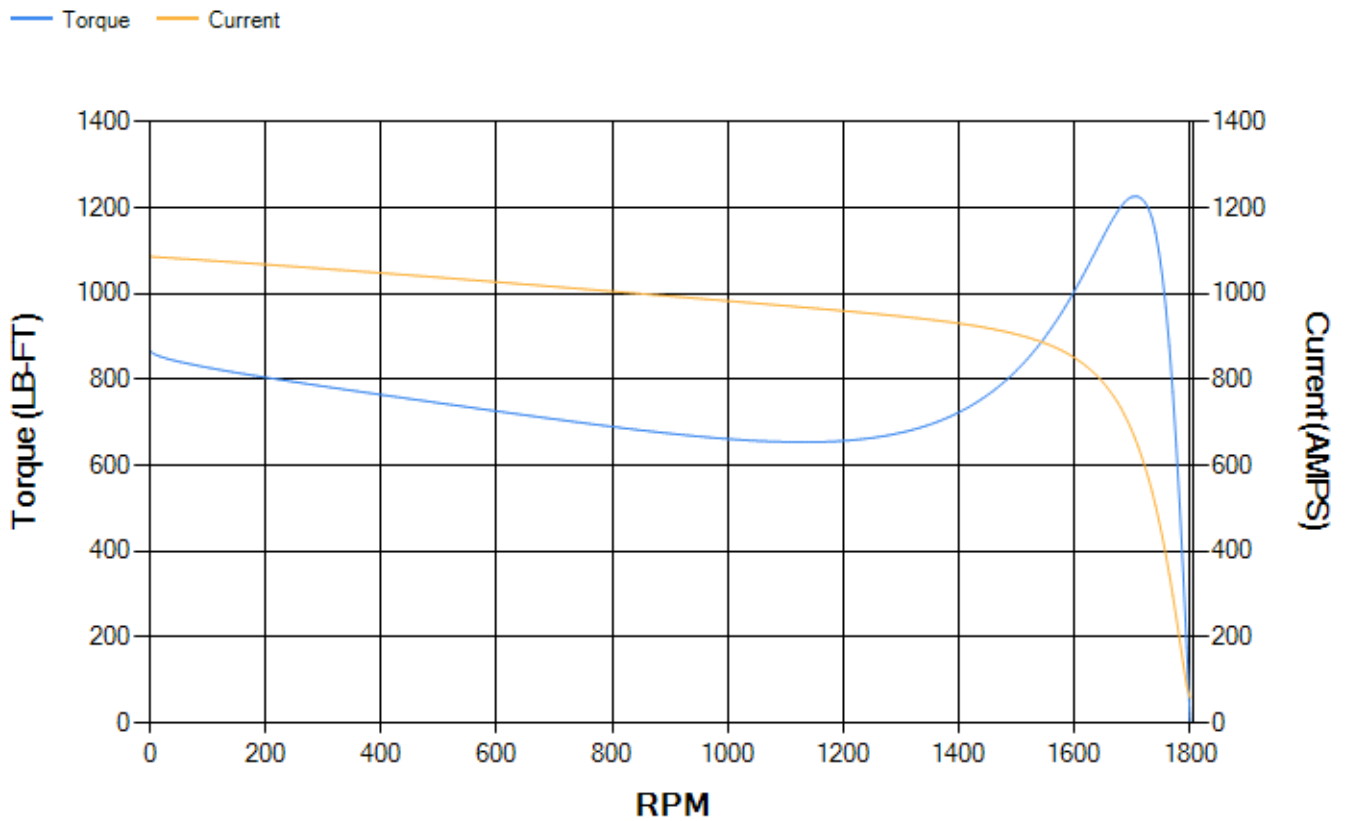
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.38	95.58	96.03	96.06	95.8	93.81	0.00
% PF	87.62	87.25	86.27	82.72	74.1	52.01	3.29
AMPS	209.97	193.58	169.48	132.51	98.88	71.93	59.21

TORQ(FL)#FT	441.8	TORQ(LR)%FL	196.74	TORQ(BD)%FL	277.39
AMPS(LR)	1086.96	PF AT START	0.33		

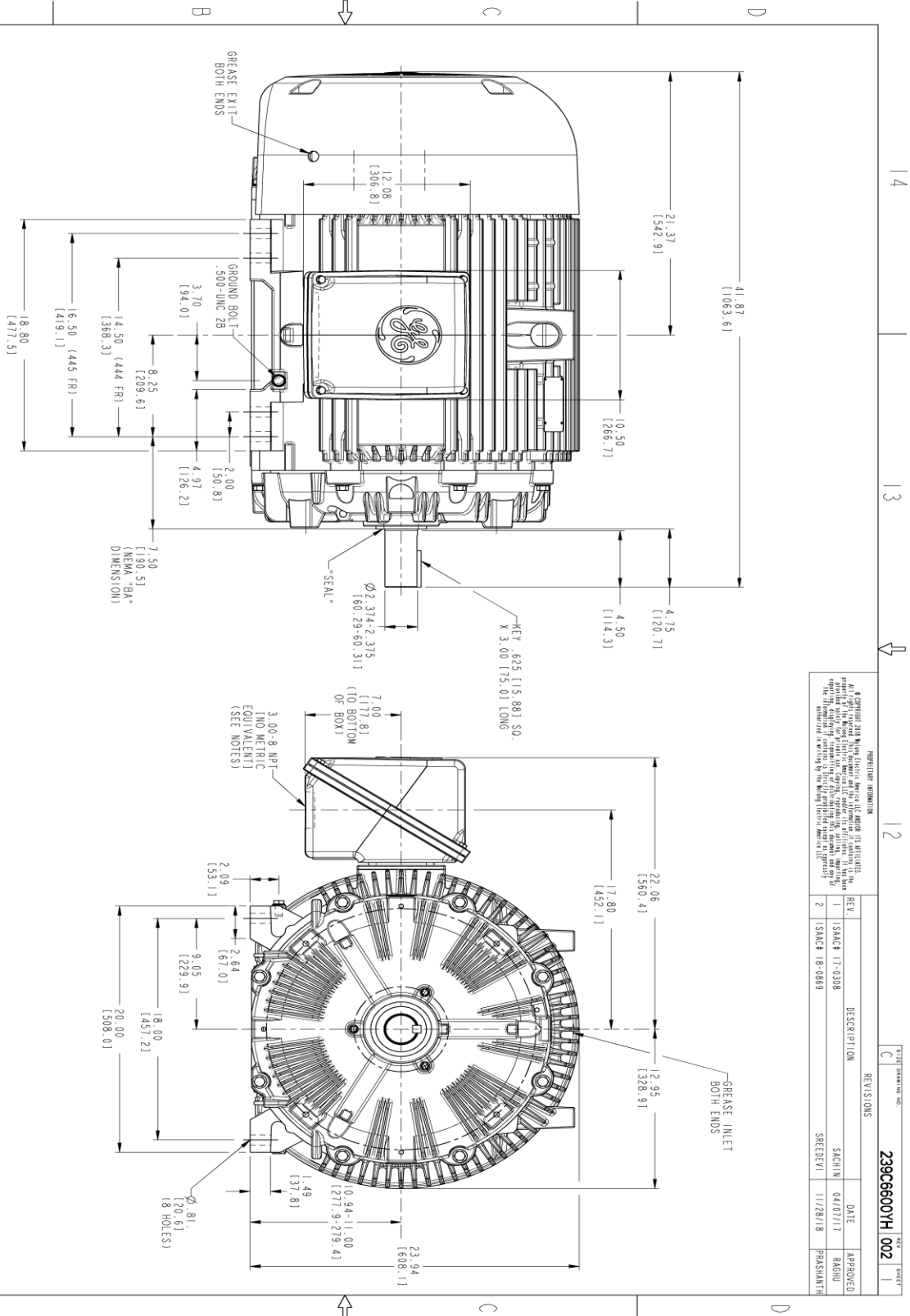
This motor is capable of two cold or one hot start with a maximum connected load inertia of 2367 Lb-Ft Sq (99.65 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 23 seconds. Safe stall time at 100% voltage is 53 seconds cold, 27 seconds hot. Rotor inertia is 62.69 Lb-Ft Sq (2.64 Kg-meter Sq).

Open Circuit A-C:	0.754	Short Circuit D-C:	0.03
Short Circuit A-C:	0.037	X/R Ratio:	11.458
Stator Slots:	72	Rotor Slots:	58

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 ROUNDOFF IS .0015 T.I.R.

REGISTRATION INFORMATION
 GE is a registered trademark of General Electric Company. All other trademarks are the property of their respective owners. © 2020 GE. All rights reserved. The information contained herein is confidential and intended for internal use only. It is not to be distributed outside the organization without the express written permission of GE.

REV.	DESCRIPTION	DATE	APPROVED
1	ISACH 17-0308	04/07/17	RAGHU
2	ISACH 18-0869	11/28/18	PRASHANTH



SIGNATURES	DATE	TITLE
MODEL: TEJASNI	06/29/15	<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 ROUNDOFF</p> <p>239C6600YH</p>
REV. 1: TEJASNI	06/29/15	
CHECKED: HIRSHMAN	06/29/15	
DATE: VENKAT	06/29/15	
QUALITY: TEJASNI	06/29/15	
ISSUED: TEJASNI	06/29/15	SCALE: 0.200
SOLD MODEL: 239C6600YH		REF. NO.: 239C6600AH
		SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LM1
Bearing	235A2514AG01	235A2514AG01
Slinger/Inproseal	235A4575HD4	235A4575GS5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA2
Fan Cover	128D6841AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

