



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:	5KS445SAA118D15
Catalog Number:	M9512
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:	5KS445SAA118D15	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:	44BD0196A	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:	3580	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	27.6
Amps - FL:	163.0	Power Factor:	90.5
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:5KS445SAA118D15 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: 44BD0196A

Marks:

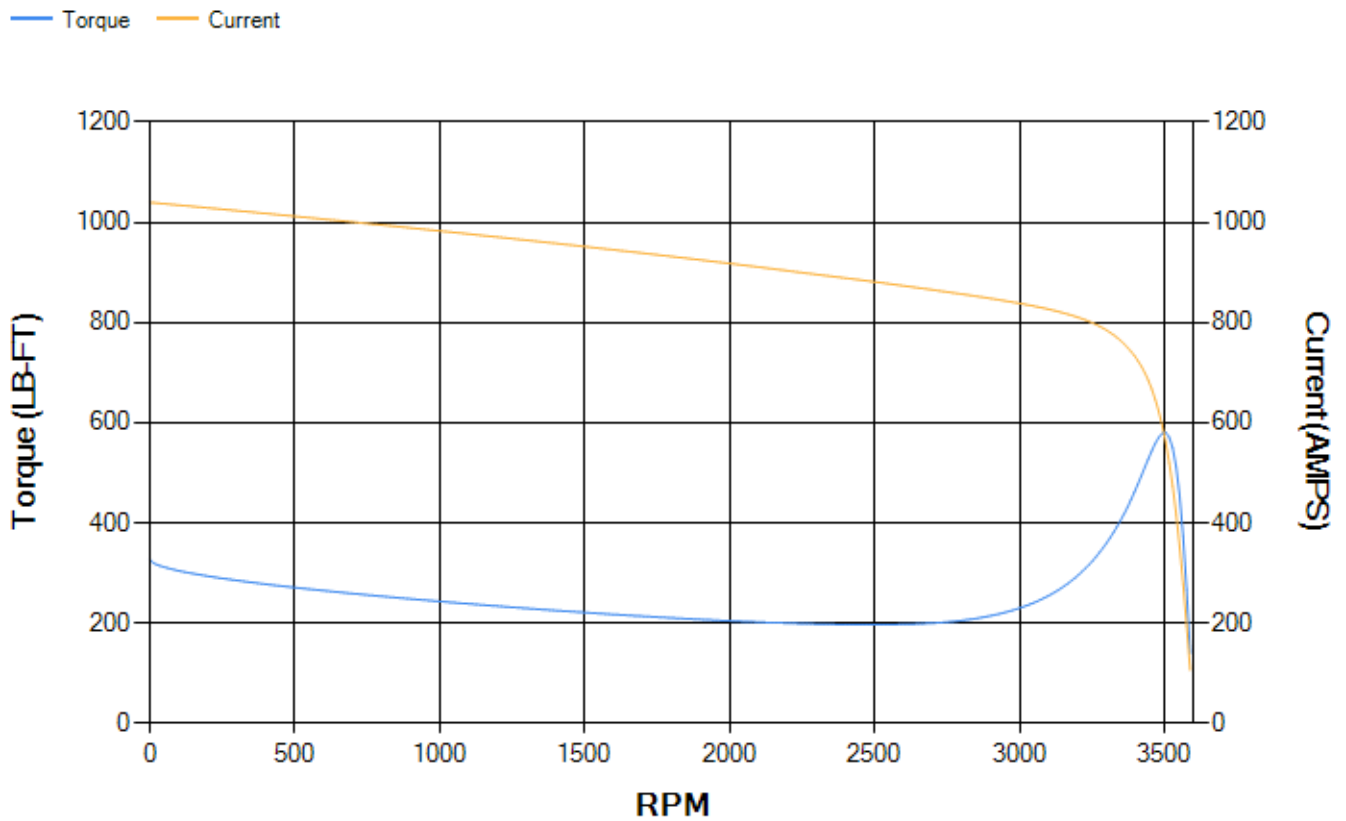
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.93	95.08	95.44	95.23	94.54	91.39	0.00
% PF	90.71	90.82	90.71	89.37	84.76	68.41	7.71
AMPS	203.81	186.97	162.18	123.72	87.61	56.14	38.49

TORQ(FL)#FT	220.08	TORQ(LR)%FL	148.96	TORQ(BD)%FL	263.64
AMPS(LR)	1039.83	PF AT START	0.21		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 488 Lb-Ft Sq (20.54 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 33 seconds. Safe stall time at 100% voltage is 74 seconds cold, 40 seconds hot. Rotor inertia is 29.46 Lb-Ft Sq (1.24 Kg-meter Sq).

Open Circuit A-C:	1.863	Short Circuit D-C:	0.037
Short Circuit A-C:	0.072	X/R Ratio:	13.805
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

SOLID MODEL: 239C6H00AH

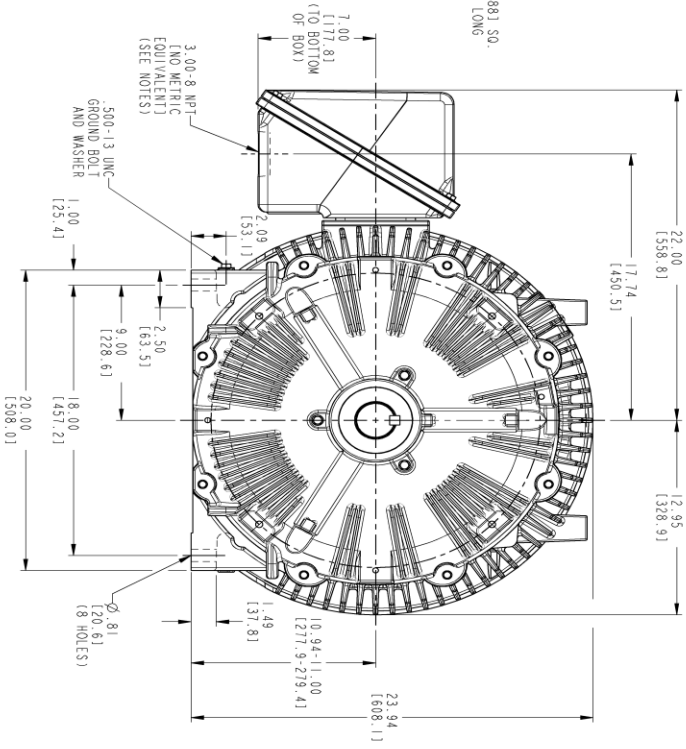
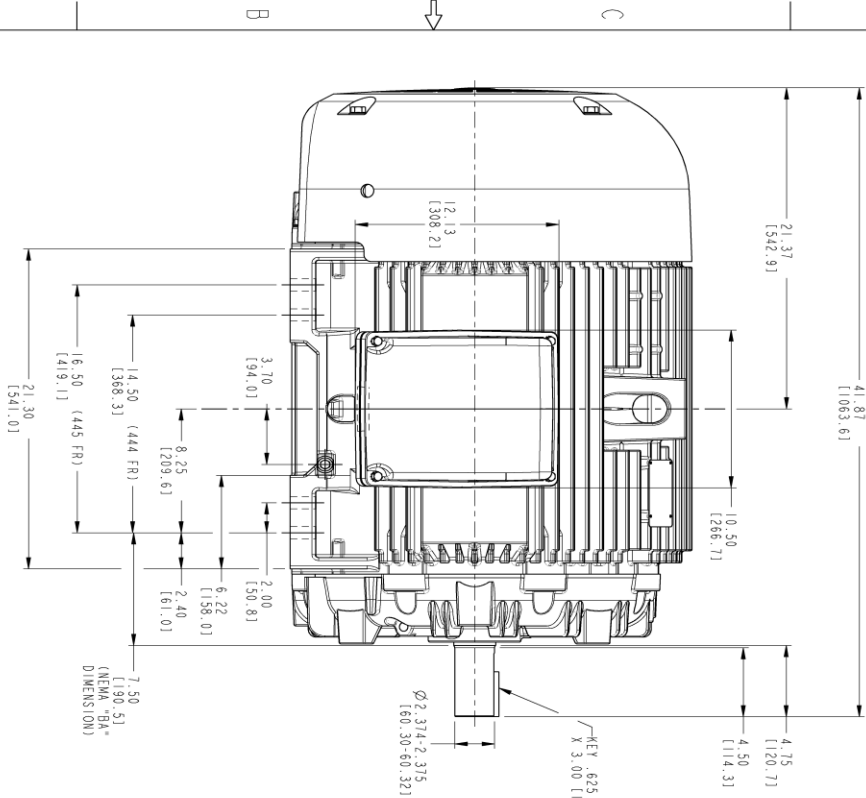


THIRD ANGLE PROJECTION

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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. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).



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REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE	
MODEL	5KS445SAA118D15	DATE	07/18/18
DESIGN	BHARTI	DATE	07/18/18
CHECKED	VJAY	DATE	07/18/18
ENGINEER	SUDHAR	DATE	07/18/18
QUALITY	BHARTI	DATE	07/18/18
ISSUED	BHARTI	DATE	07/18/18
SCALE: 0.200		REV: 000	
DISTRIBUTION: MMP		SHEET 1 OF 1	

OUTLINE

444/445TS TERC

700 CU IN CONDUIT BOX, GROUND PAD

239C6H00AH

GE POWER CONVERSION

CLASS II (REF. INTERNAL CATALOG)

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	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	

