

Product Information Packet

February 28, 2017

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

Model Number:	5KS445XAJ5708A
Catalog Number:	V4813
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	148CB44IPHRCCLA0001

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:	5KS445XAJ5708A	Estimated Weight:	0 Lbs
Outline Drawing:	148CB44IPHRCCLA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEK-95351	Encl Construction:	841
Design Code:	44BD0131AB	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L445LP	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.0 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	94.1
RPM:	3580	3/4 Load Efficiency:	93.5
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	33.9
Amps - FL:	168.0	Power Factor:	89.0
Service Factor:	1.15	Bearing - DE:	NU217
Alt Service Factor:	--	Bearing - ODE:	235A2523AD01

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTIONS TO IEEE-STD-841-2009:
ALUMINIUM FAN BACK PLATE
VERTICAL 841
DE BRG 85RU02M00, ODE BRG 100BT02MD00
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 0-60 HZ
GE SELF DECLARED CLASS I DIV 2 MOTOR
MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
TEMPERATURES UNDER USUAL SERVICE CONDITIONS
AT 1.00 S.F. DO NOT EXCEED 200 DEG C
API 610 12TH EDITION SHAFT DIMENSIONS
INLINE MOTOR

Additional Information:

2 POLE,VERT SOLID SHAFT INLINE (1U1D)
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
700 CU IN - 3.00" NPT
BEARING LIFE 8760 HRS AT 4024 LB THRUST
BEARING LIFE 26280 HRS AT 2530 LB THRUST
INPRO SEAL LOWER END
OIL RESISTANT SLEEVING ON LEADS
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.
STAINLESS STEEL T-DRAINS
FRAME GROUND PAD
ACTUAL EFFICIENCY = 94.1%
RCF: XXXX CPM AT C/BOX SIDE, XXXX CPM AT
90 DEG FROM C/ BOX SIDE
CG: XX.XX IN FROM P-BASE FACE

Performance Characteristics

1st Winding 1st Connection

Design: 44BD0131AB

Marks:

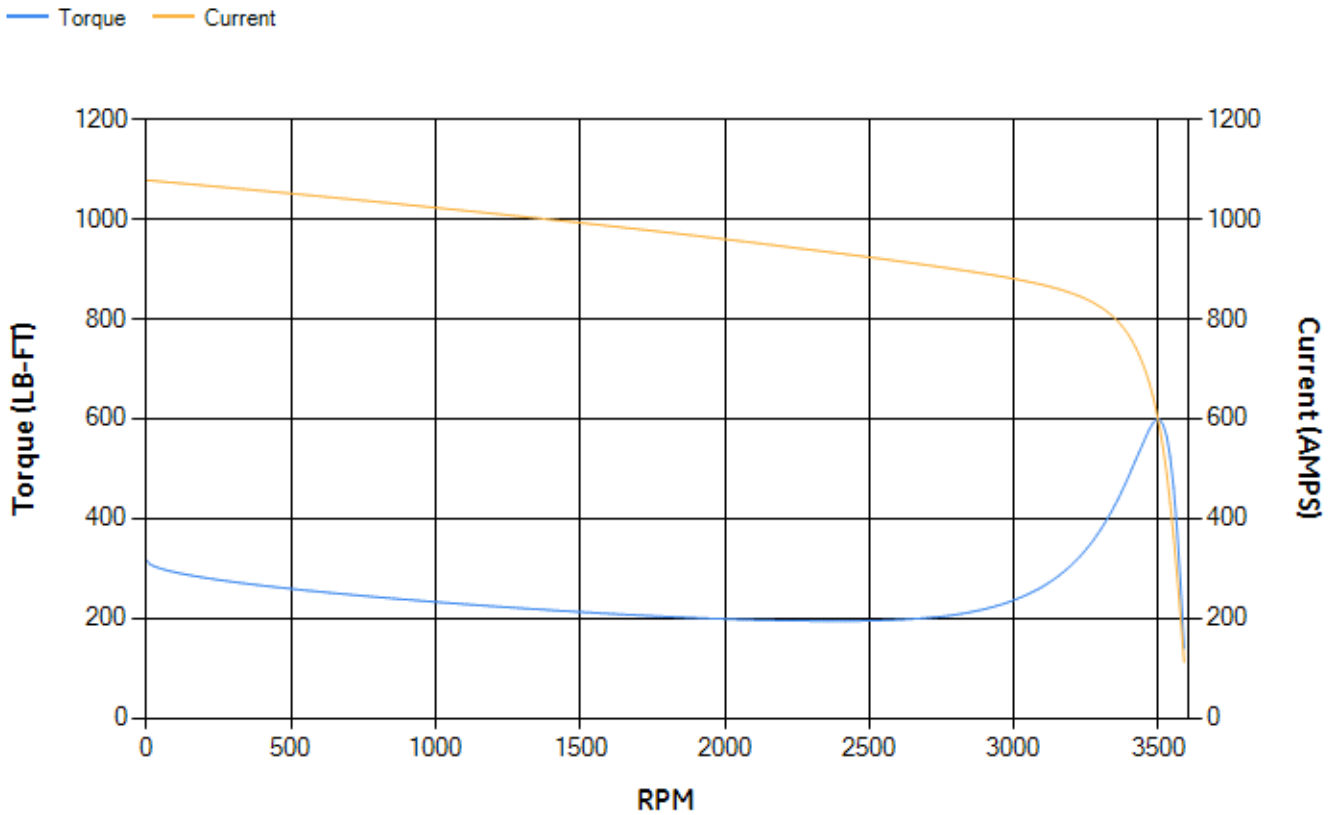
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.89	93.95	94.14	93.52	92.05	86.89	0.00
% PF	89.5	89.46	89.05	86.97	81.03	63.03	10.39
AMPS	208.82	192.1	167.48	129.46	94.11	64.08	47.28

TORQ(FL)#FT	220.11	TORQ(LR)%FL	143.47	TORQ(BD)%FL	272.06
AMPS(LR)	1078	PF AT START	0.2		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 389 Lb-Ft Sq (16.38 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 27 seconds. Safe stall time at 100% voltage is 66 seconds cold, 33 seconds hot. Rotor inertia is 24.28 Lb-Ft Sq (1.02 Kg-meter Sq).

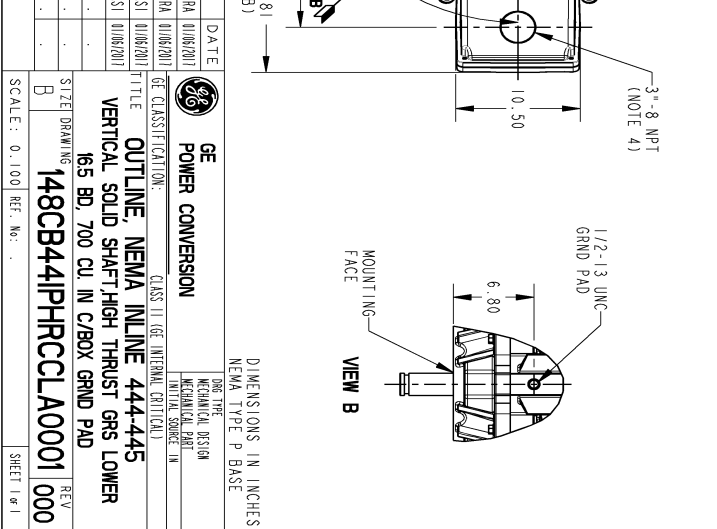
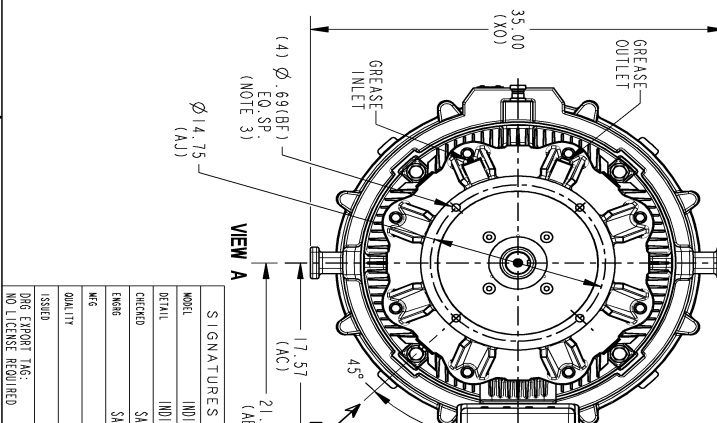
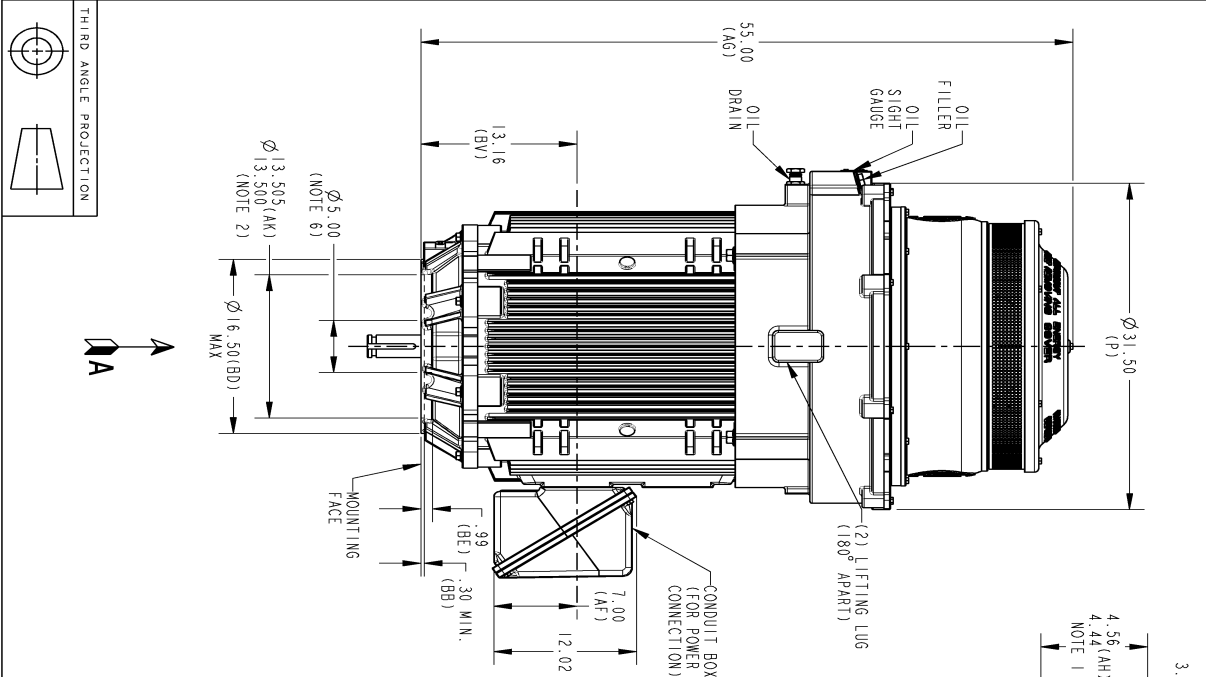
Open Circuit A-C:	1.507	Short Circuit D-C:	0.036
Short Circuit A-C:	0.069	X/R Ratio:	13.626
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

SOLID MODEL: 148CB441PHRCCLA0001



REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	REV	SHEET
DESIGNER			
CHECKED			
ISSUED			
DATE EXP. TAG:			
NO. LICENSE REQUIRED			

GE
POWER CONVERSION
 CLASS II, GE, INTERNAL, CRITICAL
OUTLINE, NEMA INLINE 444-445
VERTICAL SOLID SHAFT-HIGH THRUST GRS LOWER
 165 BD, 700 CU, IN C/BOX GRND PAD
 DIMENSIONS IN INCHES
 NEMA TYPE P BASE

NOTES:
 1. "AH" DIMENSION IS MEASURED WITH MOTOR IN VERTICAL POSITION SHAFT DOWN.
 2. MEETS API 610 12TH EDITION SHAFT DIMENSIONS.
 3. CENTER OF MOUNTING BOLTS HOLES WITHIN .025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTERLINE OF MOUNTING RABBIT.
 4. PROVIDED MOUNTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD OR FROM EITHER SIDE.
 5. FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
 6. MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER.

SCALE: 0.100 REF. No. 148CB441PHRCCLA0001 000
 SIZE DRAWING
 SHEET 1 OF 1

SIZE DRAWING NO. 148CB441PHRCCLA0001 000
 REV B

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8660AA1	115E8671LA1
Bearing	235A2522AH01	235A2523AD01
Slinger/Inproseal	235A4575GS4	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	153B1886G01
Fan Cover	128D6847AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

