

Product Information Packet

May 26, 2017

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

Model Number:	5KS405XAJ6408A
Catalog Number:	V4824
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	148CB40INHNCCLA0001

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:	5KS405XAJ6408A	Estimated Weight:	1875 Lbs
Outline Drawing:	148CB40INHNCCLA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEK-95351	Encl Construction:	841
Design Code:	40BD1087AE	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L405VP16	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	95.0
RPM:	1785	3/4 Load Efficiency:	95.9
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	33.3
Amps - FL:	120.0	Power Factor:	82.0
Service Factor:	1.15	Bearing - DE:	6215C3
Alt Service Factor:	--	Bearing - ODE:	235A2532AA01

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTIONS TO IEEE-STD-841-2009:
 ALUMINIUM FAN BACK PLATE
 VERTICAL 841
 DE BRG 75BC02J30, ODE BRG 110BT02MD00
 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

Additional Information:

4 POLE, VERT SOLID SHAFT HIGH THRUST (1D)
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 700 CU IN - 3.00" NPT
 BEARING LIFE 8760 HRS AT 6402 LB THRUST
 BEARING LIFE 26280 HRS AT 4308 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 = 95.0%
RCF: 1860 CPM AT C/BOX SIDE, 1860 CPM AT
90 DEG FROM C/ BOX SIDE
CG: 21.64 IN FROM P-BASE FACE

Performance Characteristics

1st Winding 1st Connection

Design: 40BD1087AE

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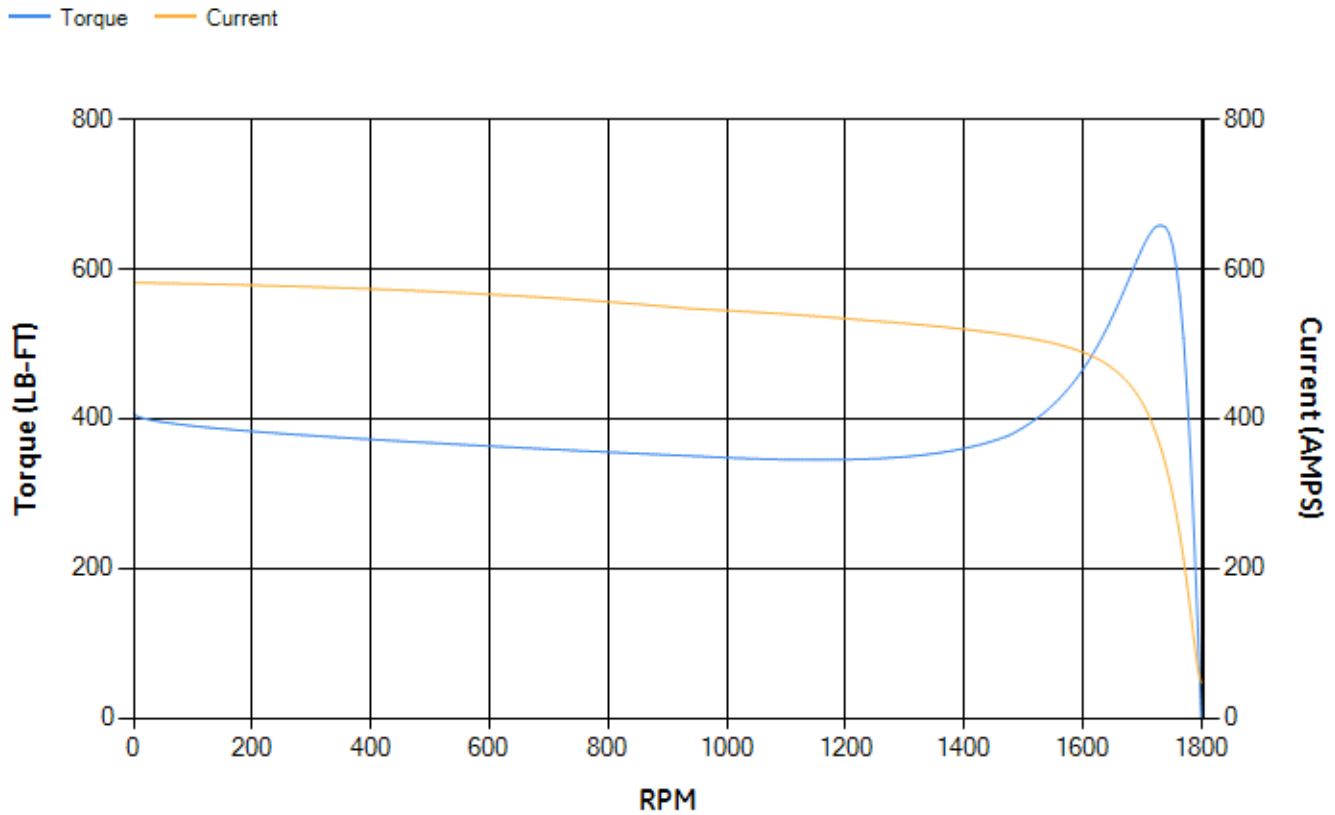
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.46	94.65	95.05	94.88	94.18	90.88	0.00
% PF	83.26	82.96	81.96	78.08	68.77	47.02	4.45
AMPS	148.74	137.07	120.15	94.76	72.25	54.75	46.47

TORQ(FL)#FT	294.39	TORQ(LR)%FL	138.32	TORQ(BD)%FL	223.28
AMPS(LR)	581.69	PF AT START	0.29		

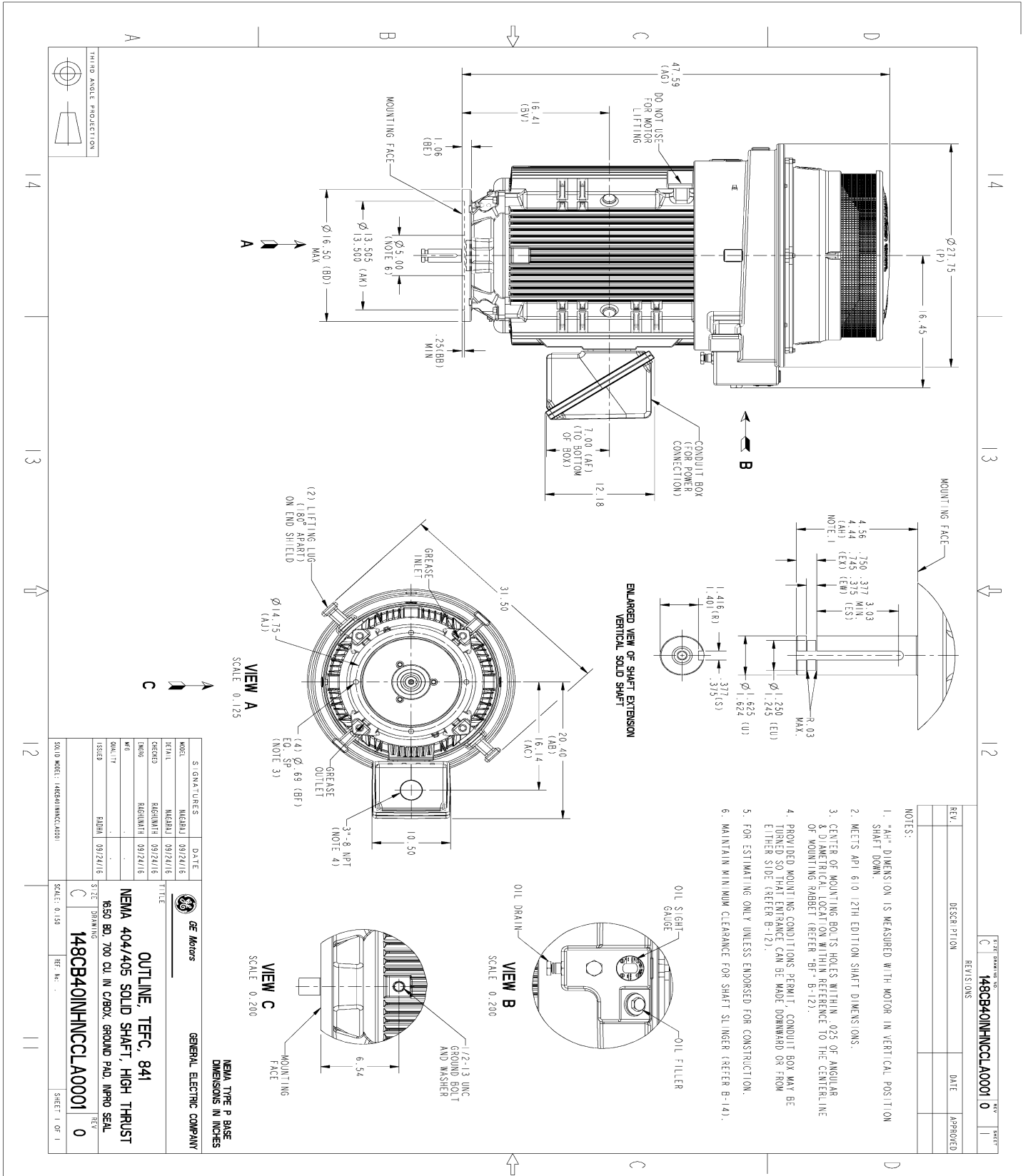
This motor is capable of two cold or one hot start with a maximum connected load inertia of 2151 Lb-Ft Sq (90.56 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 44 seconds. Safe stall time at 100% voltage is 106 seconds cold, 53 seconds hot. Rotor inertia is 22.56 Lb-Ft Sq (0.95 Kg-meter Sq).

Open Circuit A-C:	0.715	Short Circuit D-C:	0.034
Short Circuit A-C:	0.048	X/R Ratio:	12.653
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

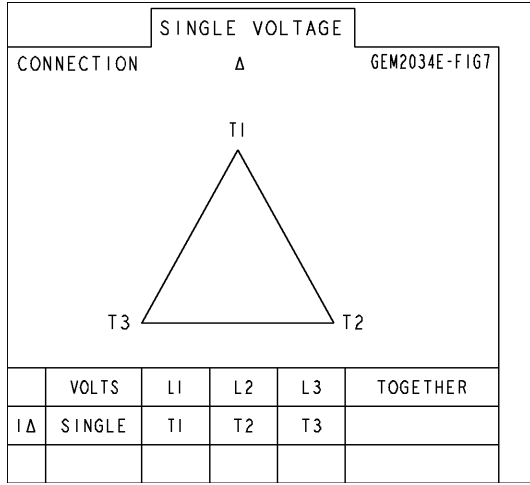


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Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8306AC1	115E8310LA1
Bearing	235A2513AL01	235A2532AA01
Slinger/Inproseal	235A4575GC44	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	153B1885G02
Fan Cover	128D6845AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	