

# Product Information Packet

May 26, 2017

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

<b>Model Number:</b>	<b>5KS324XAJ6408A</b>
<b>Catalog Number:</b>	<b>V4816</b>
<b>Instruction Manual:</b>	GEK-95351
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	148CB32INHNBCLA0001

<b>Accessory Connection Diagrams</b>			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS324XAJ6408A</b>	<b>Estimated Weight:</b>	1047 Lbs
<b>Outline Drawing:</b>	148CB32INHNBCLA0001	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEK-95351	<b>Encl Construction:</b>	841
<b>Design Code:</b>	32BD1182AC	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	L324VP16	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	94.1 %
<b>Output Power:</b>	40HP 29.6KW	<b>Guaranteed Efficiency:</b>	93.6
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	94.3
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	15.2
<b>Amps - FL:</b>	49.7	<b>Power Factor:</b>	80.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6212C3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	235A2523AD01

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

EXCEPTIONS TO IEEE-STD-841-2009:  
 ALUMINIUM FAN AND FAN BACK PLATE  
 VERTICAL 841  
 DE BRG 60BC02J30, 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

**Additional Information:**

4 POLE,VERT SOLID SHAFT HIGH THRUST (1D)  
 PAINTED FRAME ID & SHAFT,  
 FAN COVER INSIDE & ODE E/S OUTSIDE  
 346 CU IN - 3.00" NPT  
 BEARING LIFE 8760 HRS AT 5553 LB THRUST  
 BEARING LIFE 26280 HRS AT 3791 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 = 93.6%  
RCF: 3210 CPM AT C/BOX SIDE, 3510 CPM AT  
90 DEG FROM C/ BOX SIDE  
CG: 17.55 IN FROM P-BASE FACE

**Performance Characteristics**

1st Winding 1st Connection

**Design: 32BD1182AC**

**Marks:**

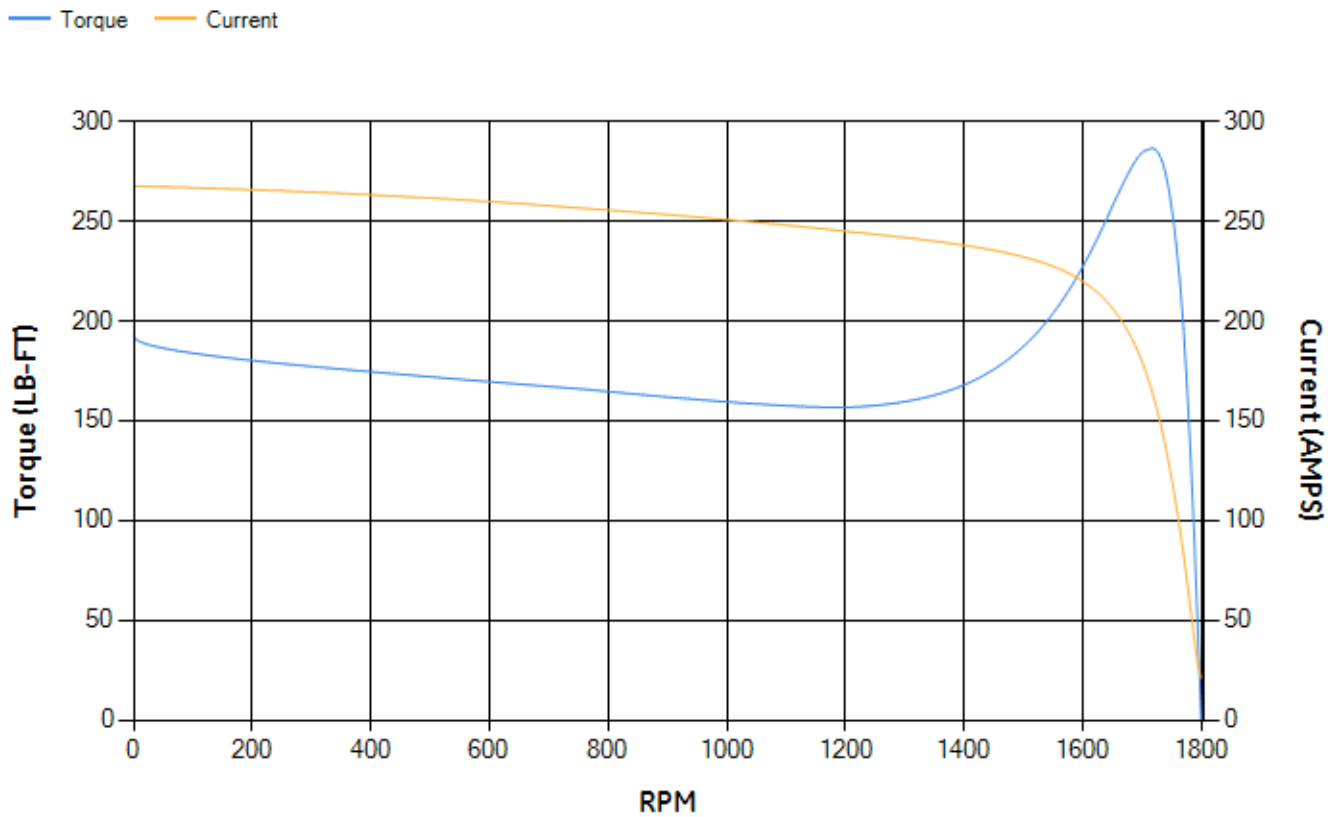
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.97	93.23	93.71	93.61	92.82	88.93	0.00
% PF	82.22	81.66	80.24	75.46	65.09	43.2	4.62
AMPS	61.22	56.55	49.67	39.75	30.98	24.36	21.15

<b>TORQ(FL)#FT</b>	118.11	<b>TORQ(LR)%FL</b>	162.86	<b>TORQ(BD)%FL</b>	241.63
<b>AMPS(LR)</b>	267.58	<b>PF AT START</b>	0.33		

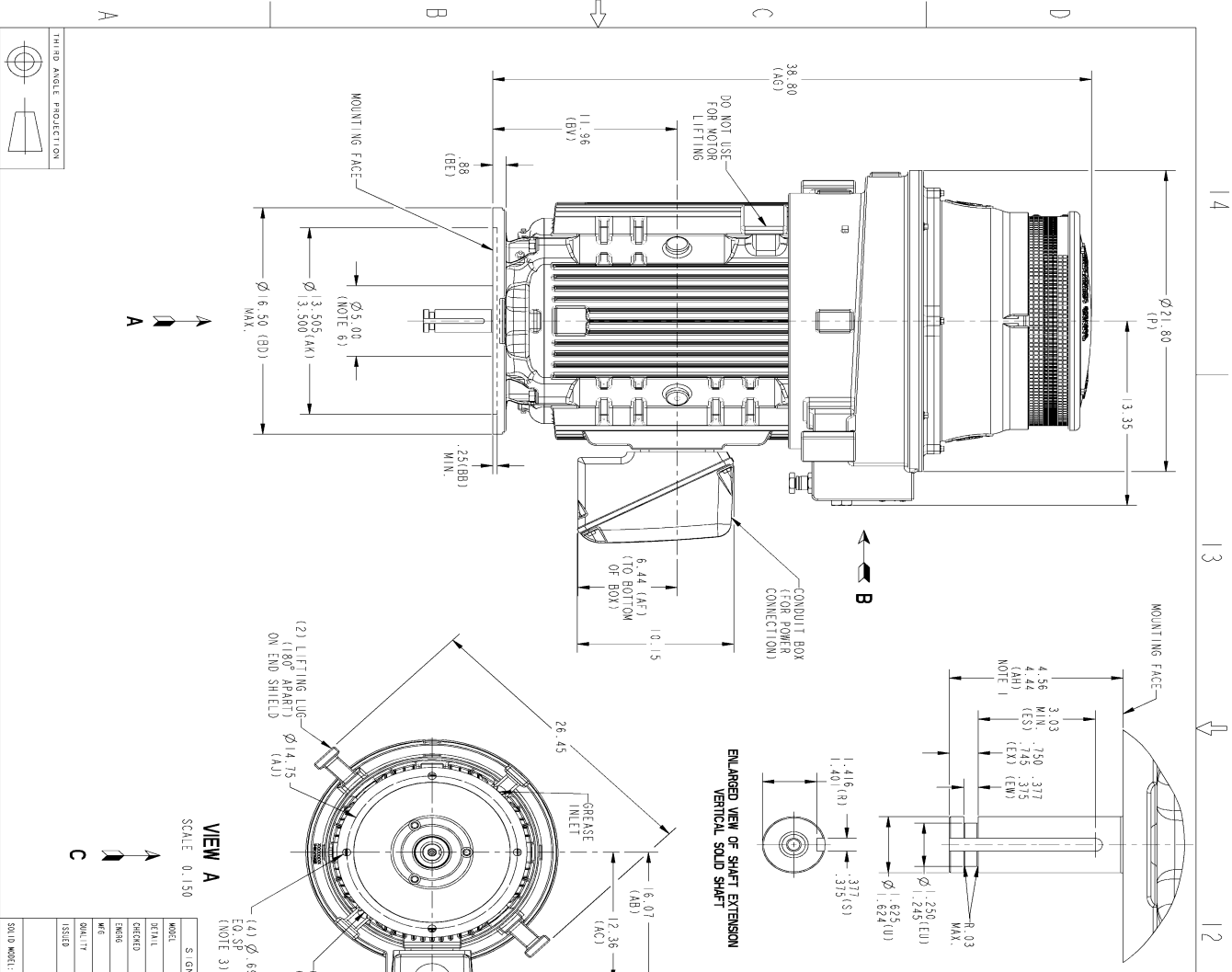
This motor is capable of two cold or one hot start with a maximum connected load inertia of 963 Lb-Ft Sq (40.54 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 40 seconds. Safe stall time at 100% voltage is 87 seconds cold, 48 seconds hot. Rotor inertia is 7.01 Lb-Ft Sq (0.3 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.483	<b>Short Circuit D-C:</b>	0.022
<b>Short Circuit A-C:</b>	0.032	<b>X/R Ratio:</b>	8.459
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	38

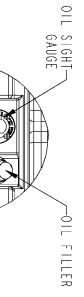
**Speed Torque Current Curve (First Connection, First Speed)**



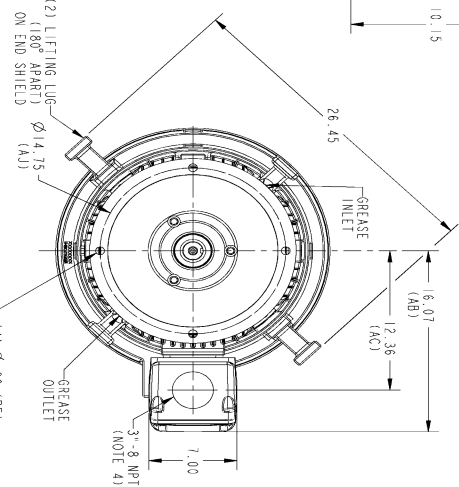
Marks:



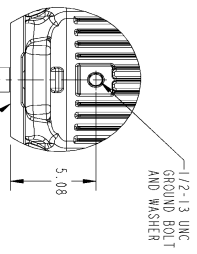
ENLARGED VIEW OF SHAFT EXTENSION VERTICAL SHAFT



VIEW B SCALE 0.200



VIEW C SCALE 0.200

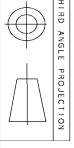


VIEW A SCALE 0.150



REV.	DESCRIPTION	DATE	APPROVED
NOTES:			
1. "A" 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 8. DIAMETER LOCATION WITH REFERENCE TO THE CENTERLINE OF MOUNTING FLANGE (REFER "B" A-12).			
4. PROVIDED MOUNTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE DOWNWARD OR FROW EITHER SIDE (REFER B-12).			
5. FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.			
6. MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER (REFER B-14).			

MODEL	5KS324XAJ6408A	DATE	09/22/16
REV.	0	DATE	09/22/16
DESIGNER	RAJAGANATH	DATE	09/22/16
DRWING	RAJAGANATH	DATE	09/22/16
CHKD	RAJAGANATH	DATE	09/22/16
APPV	RAJAGANATH	DATE	09/22/16
SCALE	0.200	TITLE	OUTLINE, TERC, 841
NEMA 324/326 SOLID SHAFT, HIGH THRUST			
1850 BD, 346 CU IN C/BOX, GROUND PAD, INPRO SEAL			
148CB321NHNBCLA0001			



GE Motors  
GENERAL ELECTRIC COMPANY  
NEMA TYPE P BASE  
DIMENSIONS IN INCHES

Marks:

**Connection Diagram**  
**GEM2034E-FIG7**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8205AC1	115E8208LA1
Bearing	235A2509BE01	235A2523AD01
Slinger/Inproseal	235A4575GE10	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	153B1887G02
Fan Cover	128D6846AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

