

Product Information Packet

July 2, 2017

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

Model Number:	5KS324XAJ5708A
Catalog Number:	V4801
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	148CB32IPHRBCLA0001

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:	5KS324XAJ5708A	Estimated Weight:	1000 Lbs
Outline Drawing:	148CB32IPHRBCLA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEK-95351	Encl Construction:	841
Design Code:	32BD0110AB	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L324LP16	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	92.4 %
Output Power:	40HP 29.6KW	Guaranteed Efficiency:	91.0 %
RPM:	3565	3/4 Load Efficiency:	92.7 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	15.4
Amps - FL:	49.1	Power Factor:	82.5
Service Factor:	1.15	Bearing - DE:	6212C3
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 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
INLINE MOTOR

Additional Information:

2 POLE,VERT SOLID SHAFT INLINE (1D1U)
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
346 CU IN - 3.00" NPT
BEARING LIFE 8760 HRS AT 4411 LB THRUST
BEARING LIFE 26280 HRS AT 3013 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 = 90.2%
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: 32BD0110AB

Marks:

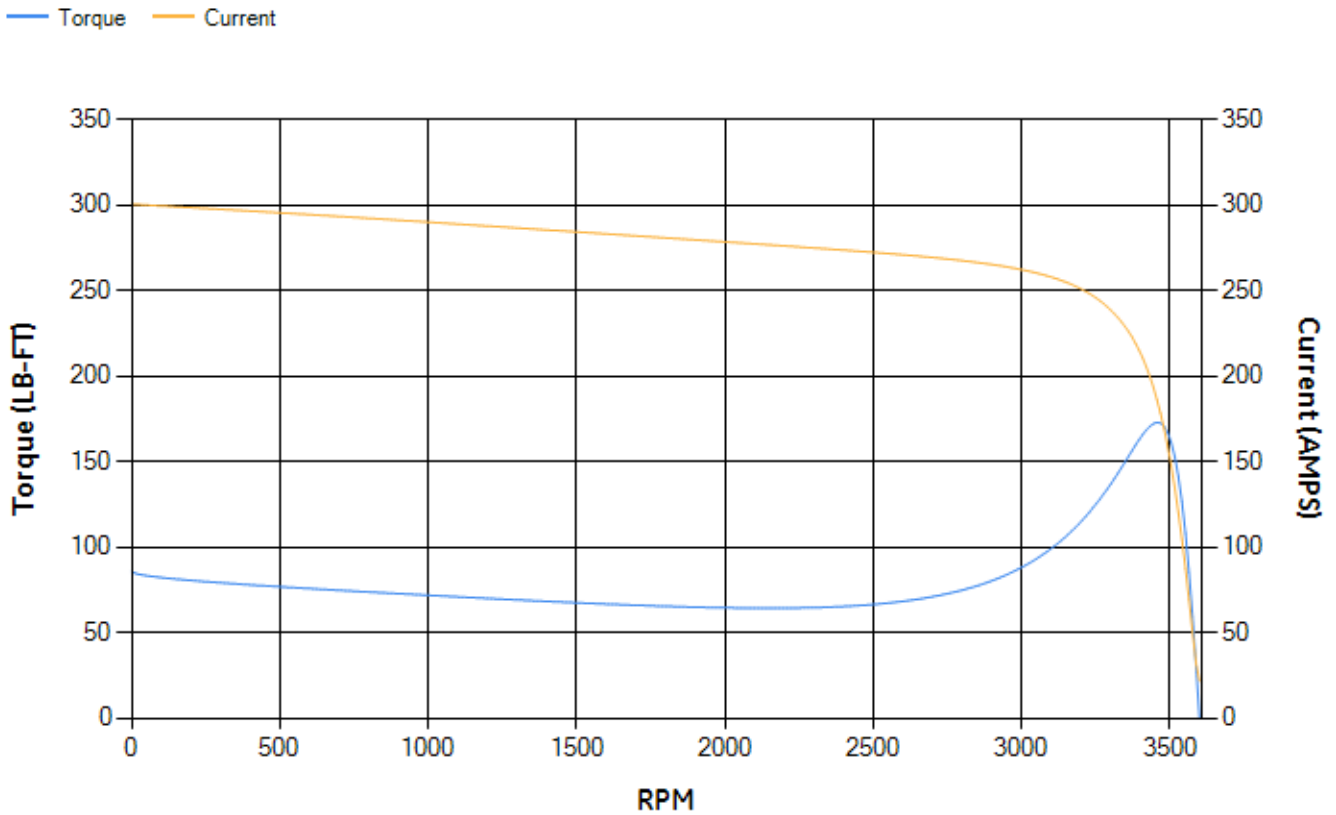
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.22	90.23	90.29	89.18	86.58	78.33	0.00
% PF	85.11	84.41	82.83	78.03	68.11	47.61	10.95
AMPS	60.94	56.53	49.96	40.35	31.75	25.1	21.43

TORQ(FL)#FT	58.89	TORQ(LR)%FL	145.52	TORQ(BD)%FL	293.25
AMPS(LR)	300.37	PF AT START	0.29		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 118 Lb-Ft Sq (4.97 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 52 seconds cold, 28 seconds hot. Rotor inertia is 3.14 Lb-Ft Sq (0.13 Kg-meter Sq).

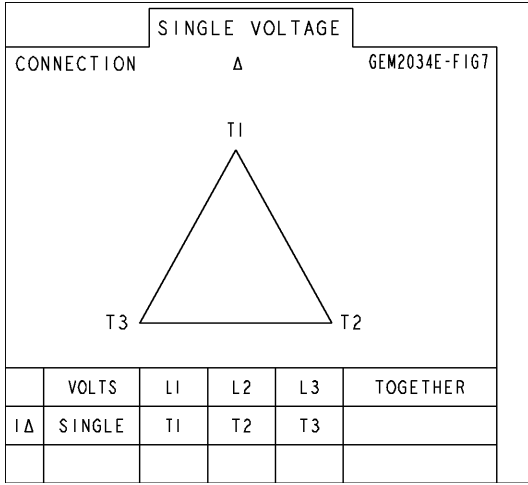
Open Circuit A-C:	0.612	Short Circuit D-C:	0.017
Short Circuit A-C:	0.042	X/R Ratio:	6.487
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



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	153B1891G01
Fan Cover	128D6846AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	