

Product Information Packet

November 9, 2016

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

Model Number:	5KS324STE115A
Catalog Number:	M7711
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG210
Outline Drawing:	358B6274AB

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:	5KS324STE115A	Estimated Weight:	826 Lbs
Outline Drawing:	358B6274AB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG210	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	32AD0012A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	324TS	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	92.4 %
Output Power:	40HP 29.6KW	Guaranteed Efficiency:	91.0
RPM:	3540	3/4 Load Efficiency:	92.7
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	6.1
Amps - FL:	89/44.5	Power Factor:	91
Service Factor:	1.15	Bearing - DE:	6312C3
Alt Service Factor:	--	Bearing - ODE:	6212C3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

LRA: 556.4/278.2

50HZ DATA: 30 HP,200/400V,87.8/43.9 AMPS @ 1.15 SF

50HZ DATA:40 HP,200/400V,102.4/51.2 AMPS @ 1.00 SF

GREASE TYPE: EXXON POLYREX EM

Additional Information:

CONDUIT BOX MATERIAL: CAST IRON

SUITABLE FOR USE IN CLASS I DIVISION 2 LOCATIONS

CLASS I DIVISION 2 GROUPS A,B,C,D T3C

CLASS I ZONE 2 IIC T3C



Performance Characteristics

1st Winding 1st Connection

Design: 32AD0012A

Marks:

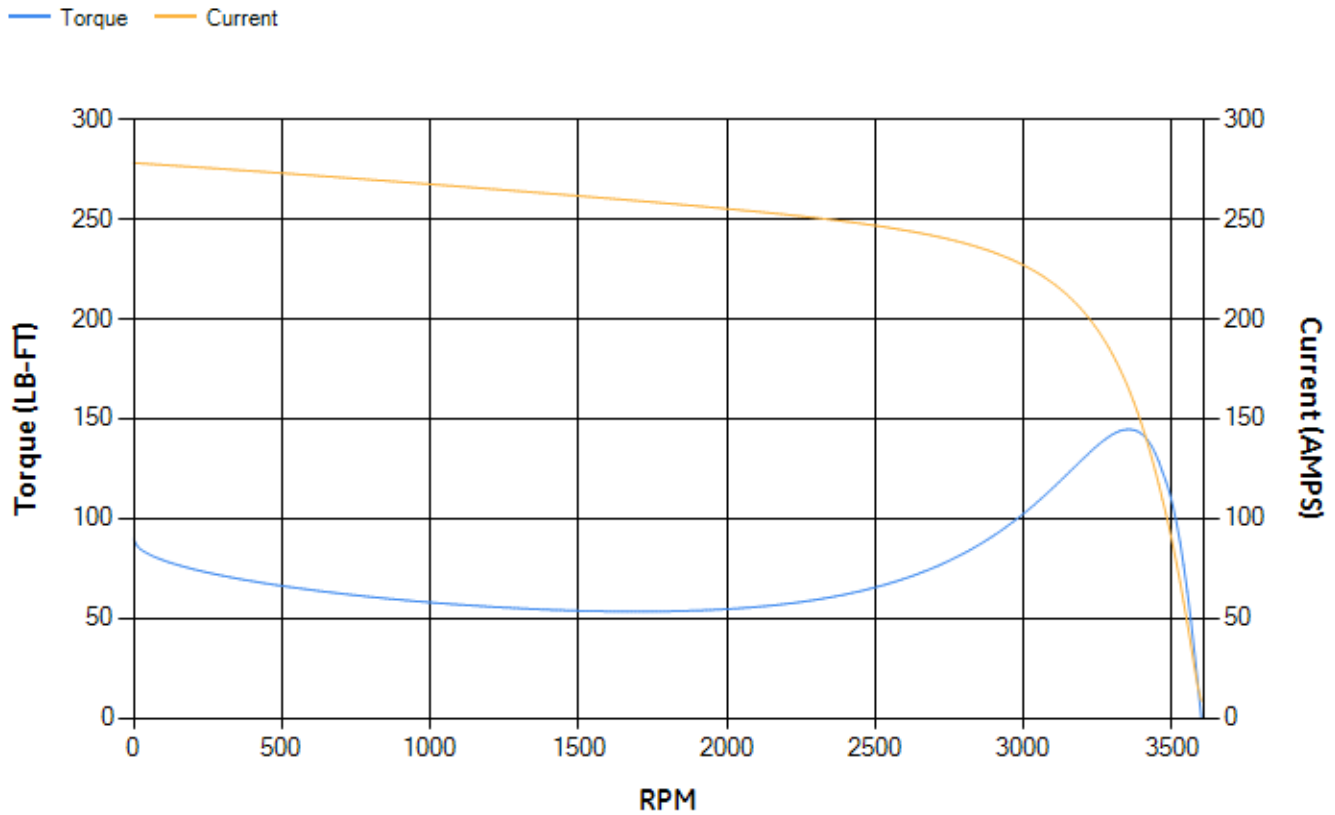
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.22	91.66	92.39	92.65	92.17	88.51	0.00
% PF	90.66	91.03	91.3	90.76	87.66	74.93	12.56
AMPS	56.59	51.6	44.39	33.39	23.17	14.11	8.45

TORQ(FL)#FT	59.32	TORQ(LR)%FL	151.28	TORQ(BD)%FL	242.08
AMPS(LR)	278.18	PF AT START	0.26		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 137 Lb-Ft Sq (5.77 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 31 seconds. Safe stall time at 100% voltage is 59 seconds cold, 37 seconds hot. Rotor inertia is 4.57 Lb-Ft Sq (0.19 Kg-meter Sq).

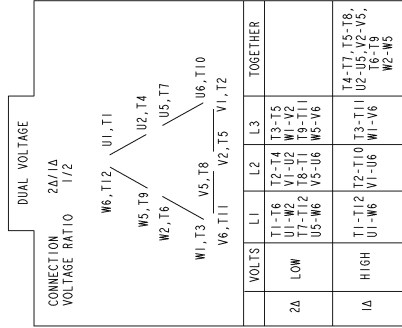
Open Circuit A-C:	0.868	Short Circuit D-C:	0.022
Short Circuit A-C:	0.025	X/R Ratio:	8.289
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG210



NAME:501452353 OBJECT:GEM2034E-FIG210 DATE:25-Feb-08 14:03:35