

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS256STE222A</b>
<b>Catalog Number:</b>	<b>M7746</b>
<b>Instruction Manual:</b>	GEI-M1031
<b>Connection Diagram:</b>	GEM2034E-FIG210
<b>Outline Drawing:</b>	358B6278AB

Accessory Connection Diagrams			
<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>5KS256STE222A</b>	<b>Estimated Weight:</b>	361 Lbs
<b>Outline Drawing:</b>	358B6278AB	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG210	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1031	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	25AD1015A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	256TC	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	A
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	93 %
<b>Output Power:</b>	20HP 14.8KW	<b>Guaranteed Efficiency:</b>	91.7
<b>RPM:</b>	1760	<b>3/4 Load Efficiency:</b>	93.2
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	5.4
<b>Amps - FL:</b>	47.4/23.7	<b>Power Factor:</b>	85
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6310ZZ
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6208ZZ

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

USABLE AT 200V @ 20 HP,53.8 AMPS @ 1.0 SF

LRA: 308/154

50HZ DATA: 15 HP,200/400V,47.4/23.7 AMPS @ 1.15 SF

50HZ DATA: 20 HP,200/400V,54.2/27.1 AMPS @ 1.00 SF

GREASE TYPE: SHELL ALVANIA R3 LITHIUM GREASE

**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: 25AD1015A**

Marks:

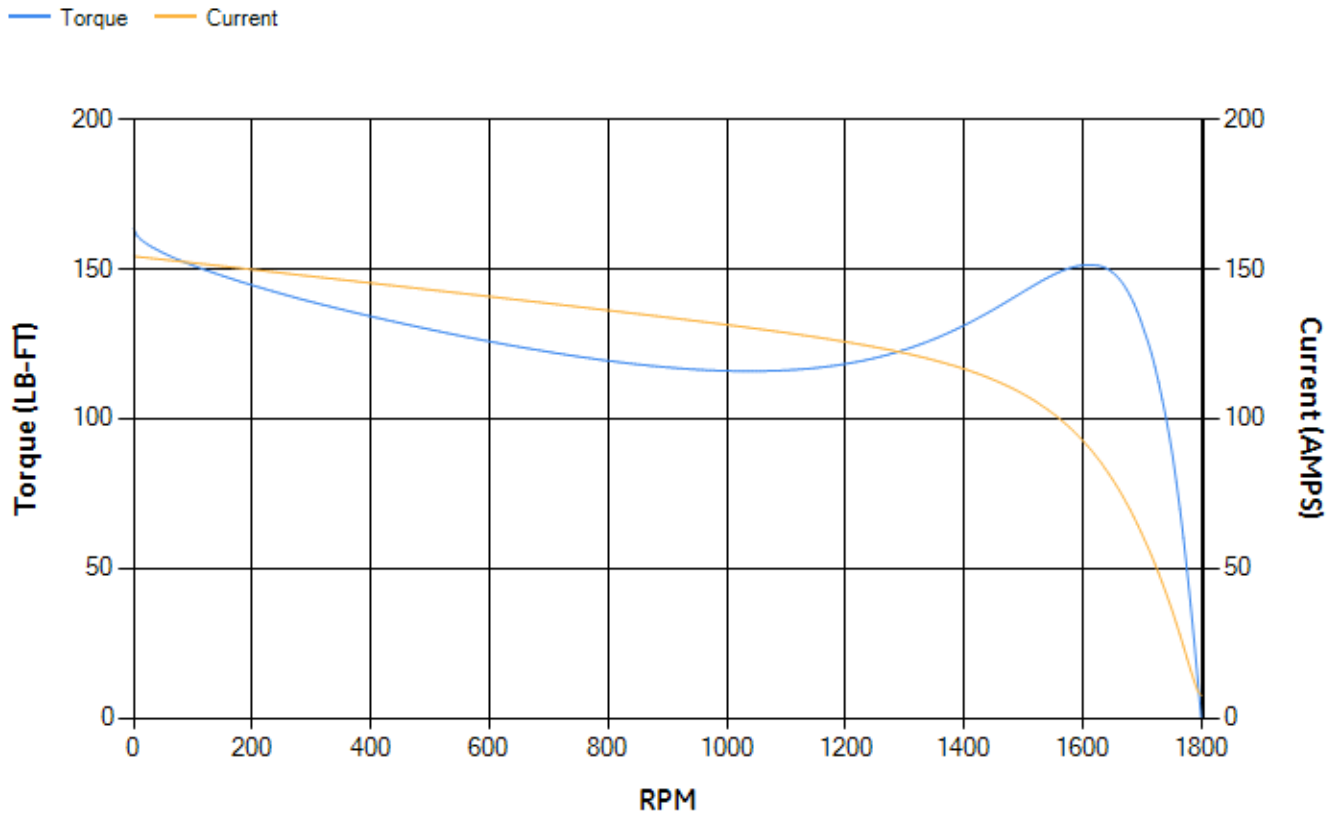
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.42	91.92	92.75	93.23	93.11	90.33	0.00
% PF	85.79	85.76	85.25	82.54	75.09	54.74	5.63
AMPS	29.83	27.31	23.67	18.24	13.39	9.46	7.46

TORQ(FL)#FT	59.58	TORQ(LR)%FL	274.62	TORQ(BD)%FL	252.27
AMPS(LR)	154.25	PF AT START	0.45		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 703 Lb-Ft Sq (29.6 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 37 seconds. Safe stall time at 100% voltage is 63 seconds cold, 44 seconds hot. Rotor inertia is 2.39 Lb-Ft Sq (0.1 Kg-meter Sq).

Open Circuit A-C:	0.404	Short Circuit D-C:	0.016
Short Circuit A-C:	0.017	X/R Ratio:	6.012
Stator Slots:	48	Rotor Slots:	40

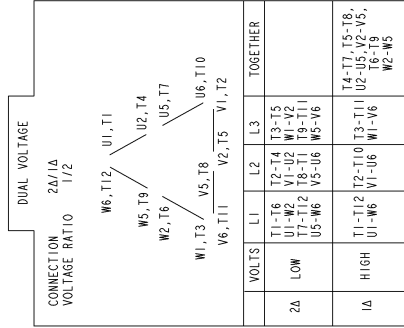
**Speed Torque Current Curve (First Connection, First Speed)**





Marks:

**Connection Diagram**  
**GEM2034E-FIG210**



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