

Product Information Packet

November 9, 2016

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

Model Number:	5KS256STE205RG3
Catalog Number:	M7566
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG210
Outline Drawing:	358B6272AD

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:	5KS256STE205RG3	Estimated Weight:	321 Lbs
Outline Drawing:	358B6272AD	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG210	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	25AD1015A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	256T	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	93 %
Output Power:	20HP 14.8KW	Guaranteed Efficiency:	91.7
RPM:	1760	3/4 Load Efficiency:	93.2
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	5.4
Amps - FL:	47.4/23.7	Power Factor:	85
Service Factor:	1.15	Bearing - DE:	6310ZZ
Alt Service Factor:	--	Bearing - ODE:	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 VOLUME (CU IN): 100.5

CONDUIT BOX MATERIAL: CAST IRON

INVERTER DUTY PER NEMA MG1 PART 31

FOR VARIABLE TORQUE LOADS

BAM 1/12



Performance Characteristics

1st Winding 1st Connection

Design: 25AD1015A

Marks:

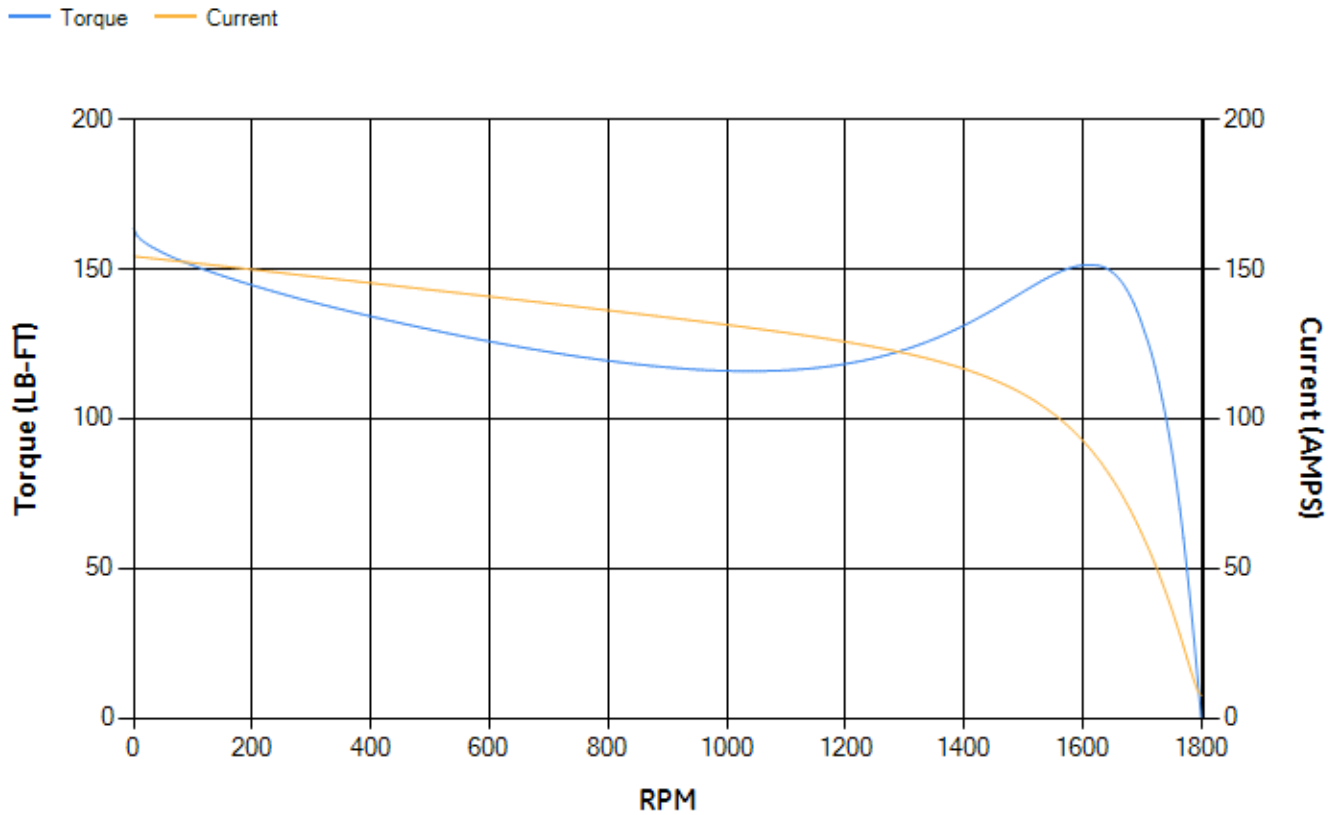
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.42	91.92	92.75	93.23	93.11	90.33	0.00
% PF	85.79	85.76	85.25	82.54	75.09	54.74	5.63
AMPS	29.83	27.31	23.67	18.24	13.39	9.46	7.46

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

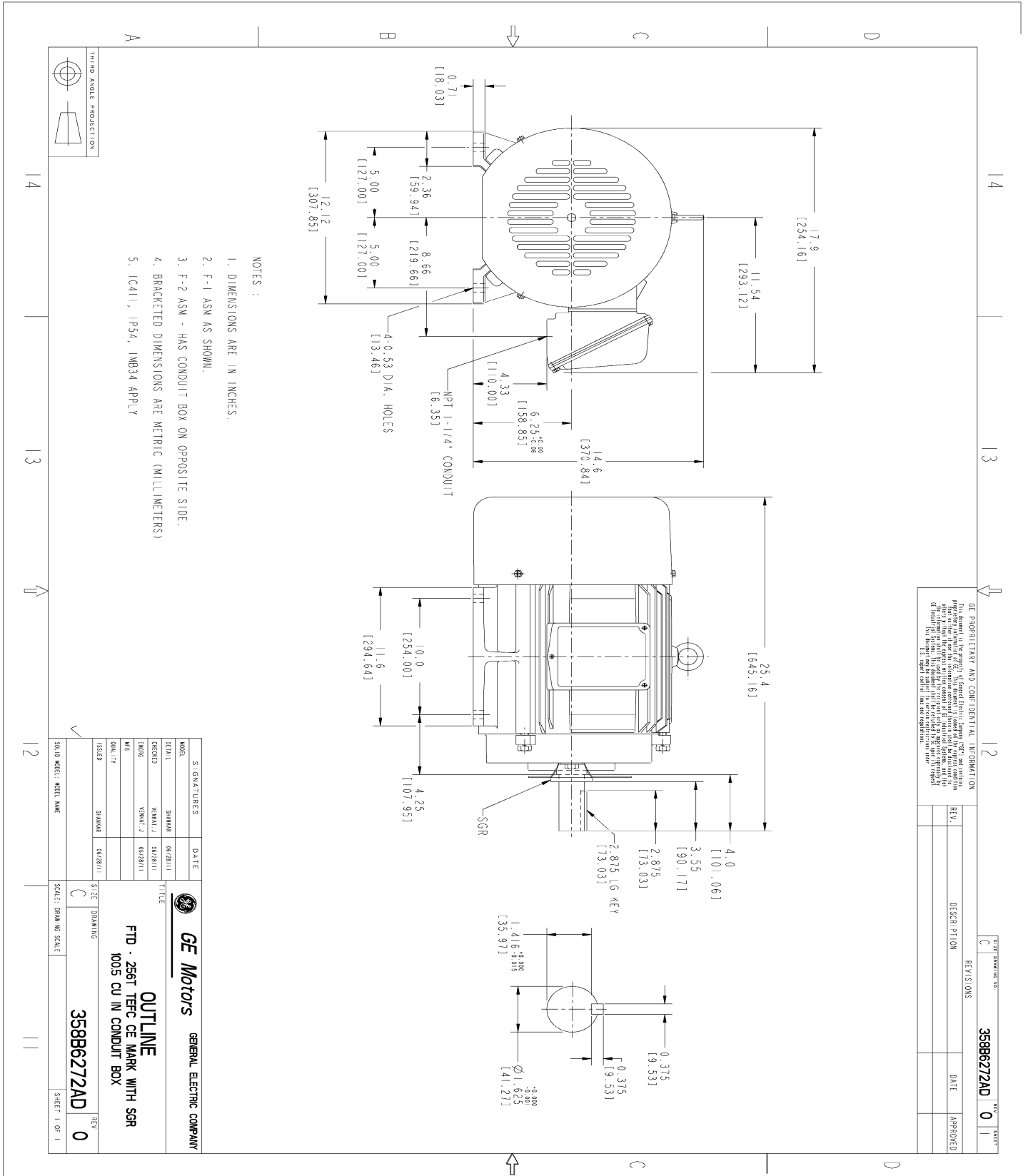
This motor is capable of two cold or one hot start with a maximum connected load inertia of 703 Lb-Ft Sq (29.6 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 37 seconds. Safe stall time at 100% 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:



- NOTES :
1. DIMENSIONS ARE IN INCHES.
 2. F-1 ASW AS SHOWN.
 3. F-2 ASW - HAS CONDUIT BOX ON OPPOSITE SIDE.
 4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS)
 5. IC411, IP54, IMB34 APPLY

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REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE	
MODEL	5KS256STE205RG3	DATE	
DESIGNER	SHANKAR	DATE	
CHECKED	SHANKAR	DATE	
DESIGN	SHANKAR	DATE	
DATE		DATE	
SCALE		SCALE	

GE Motors GENERAL ELECTRIC COMPANY

OUTLINE
 FTD - 256T TERC GE MARK WITH SGR
 1005 CU IN CONDUIT BOX

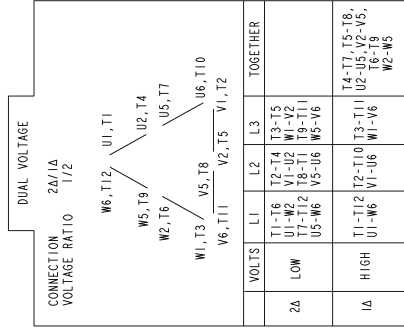
358B6272AD

SCALE: DRAWING SCALE

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG210



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

