

Product Information Packet

November 8, 2016

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

Model Number:	5KS405LAA243A
Catalog Number:	M7664
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	239CC401AA

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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imagination at work

Marks:

<u>MODEL NUMBER:</u>	5KS405LAA243A	Estimated Weight:	1440 Lbs
Outline Drawing:	239CC401AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	40BD1084A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	405TC	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	94.5
RPM:	1785	3/4 Load Efficiency:	95.6
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	36.4
Amps - FL:	244.0/122.0	Power Factor:	80.5
Service Factor:	1.15	Bearing - DE:	6316ZC3S0
Alt Service Factor:	--	Bearing - ODE:	6316ZC3S0

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:
 1.0 SF VAR TORQUE RANGE 0-60 HZ

Additional Information:

4P - T EXTN
 C FACE ON DE
 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING
 VIBRATION LIMIT 0.15 INCH PER SEC



Performance Characteristics

1st Winding 1st Connection

Design: 40BD1084A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.86	95.09	95.58	95.63	95.33	93.08	0.00
% PF	82.38	81.91	80.61	76.05	65.78	43.32	2.86
AMPS	149.72	138.19	121.48	96.52	74.63	58.03	50.63

TORQ(FL)#FT 294.36
AMPS(LR) 599.81

TORQ(LR)%FL 139.06
PF AT START 0.29

TORQ(BD)%FL 229.2

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2082 Lb-Ft Sq (87.65 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 41 seconds. Safe stall time at 100% voltage is 106 seconds cold, 50 seconds hot. Rotor inertia is 21.75 Lb-Ft Sq (0.92 Kg-meter Sq).

Open Circuit A-C: 0.662

Short Circuit D-C: 0.031

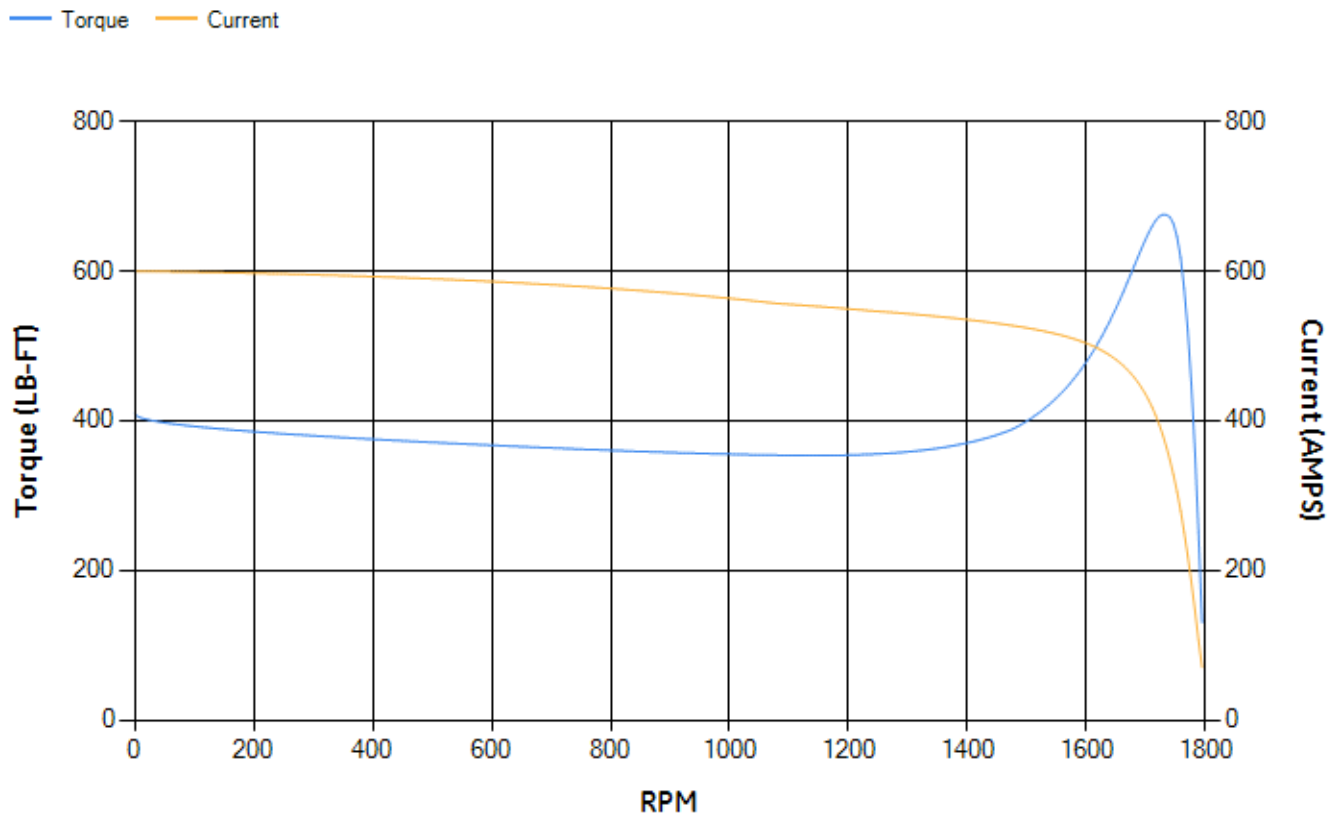
Short Circuit A-C: 0.047

X/R Ratio: 11.511

Stator Slots: 72

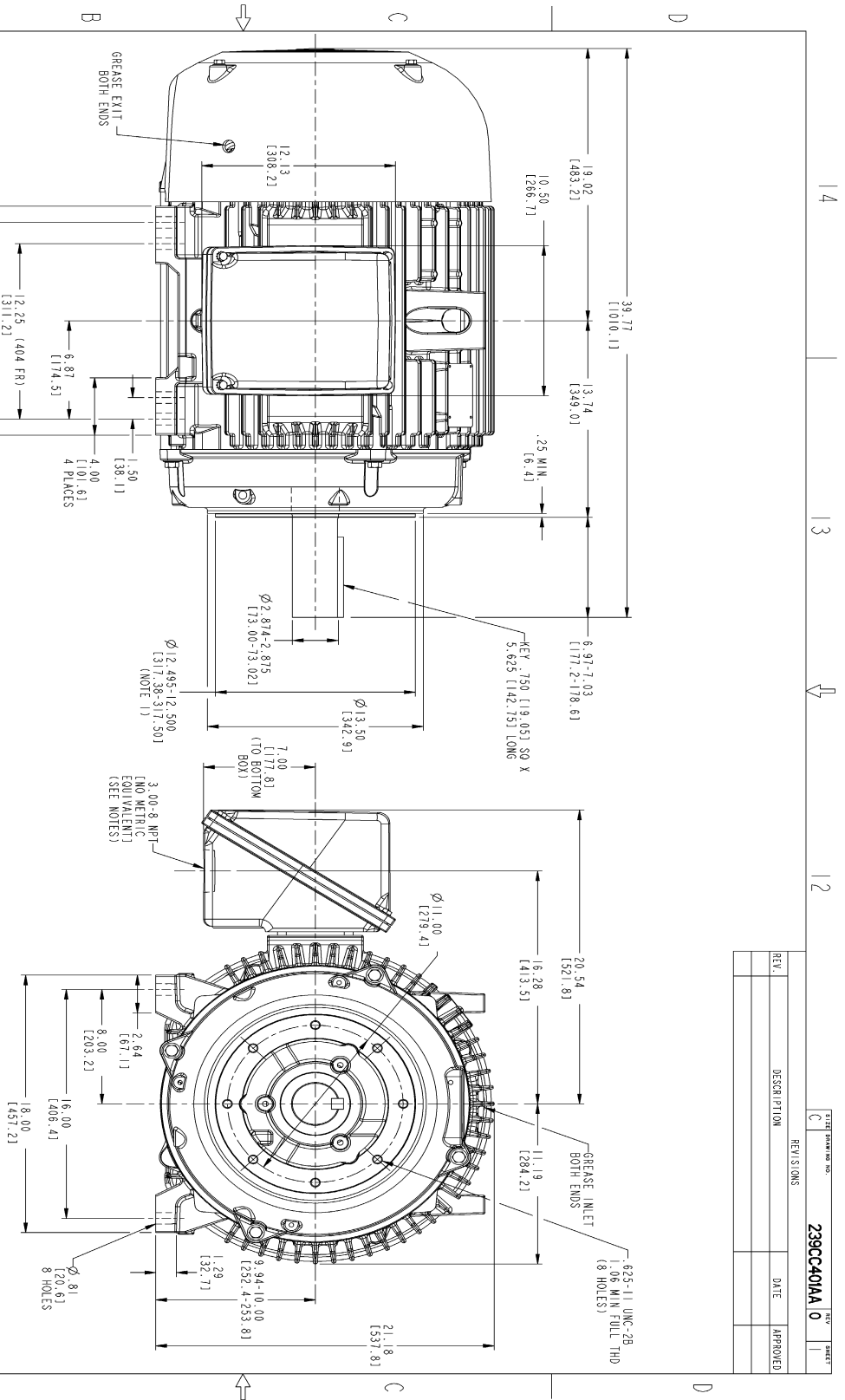
Rotor Slots: 58

Speed Torque Current Curve (First Connection, First Speed)

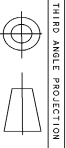


NAME:501614147 OBJECT:239CC401AA DATE:01-Jun-10 18:26:03

Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 2. F-1 ASSEMBLY AS SHOWN.
 3. F-2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE.
 4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).



THIRD ANGLE PROJECTION

SIGNATURES		DATE	GENERAL ELECTRIC COMPANY	
MODEL	PRINTER	05/26/10	OUTLINE 404/405 TC TEFC ESP 700 CU IN CONDUIT BOX	
DETAIL	PRINTER	05/26/10		
CHECKED	REVIEW	05/26/10		
DATE				
ISSUED	PRINTER	05/26/10	239CC401AA 0	
SCALE	0.250			

REV.	DESCRIPTION	DATE	APPROVED

Marks:

Connection Diagram **GEM2034E-FIG9**

