

Product Information Packet

January 12, 2017

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

Model Number:	5KS513EAG303A
Catalog Number:	P279
Instruction Manual:	GEI-100351
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	50DP4181G104DBV

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	235A3027XC	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	5KS513EAG303A	Estimated Weight:	5850 Lbs
Outline Drawing:	50DP4181G104DBV	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG2	Enclosure:	WP11
Instruction Book:	GEI-100351	Encl Construction:	OPEN
Design Code:	50ED3190E	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	XX
Frame:	5013S	Insulation Class:	F
Phases:	3	NEMA Design:	-
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	800HP 592KW	Guaranteed Efficiency:	95.0
RPM:	1185	3/4 Load Efficiency:	96.4
Voltage:	2300/4000	KVA Code:	F
Hertz:	60	Max KVAR:	262.0
Amps - FL:	194.8/112.0	Power Factor:	80.0
Service Factor:	1.15	Bearing - DE:	6320ZC3
Alt Service Factor:	XX	Bearing - ODE:	6320ZC3

Enclosure is Weather Protected Two

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-II, CSA ENCL DP
 GE SELF DECLARED CLASS I DIV 2 MOTOR
 MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
 TEMPERATURES UNDER USUAL SERVICE CONDITION
 AT 1.00 S.F. DO NOT EXCEED 200 DEG C
 VIBRATION LIMIT = 0.150 IN/SEC
 TEMP CONT HTR LDS HE1-HE2 115V 200W
 OFFSET CORE - DO NOT ASSEMBLE F2
 MAXIMUM SPACE HEATER SURFACE
 TEMPERATURE 200 DEG C

Additional Information:

6 POLE, S SHAFT EXTN
 FORMED COIL
 (2)GROUND BOLTS ON FRAME
 TEMP CONTRL 115V HEATER LEADS TO ACC BOX
 100 OHM WINDING RTD LEADS TO ACC BOX
 SUGGESTED WINDING RTD SETTINGS
 ALARM 165C TRIP 175C
 PROVISION FOR BEARING RTD BOTH ENDS
 SUGGESTED BEARING RTD SETTINGS,IF PROVIDED
 ALARM 115C TRIP 125C
 PROVISION FOR JACK SCREWS
 2500 Cu. In. CBOX
 DP-WP11 STOCK 09/24/2016
 ENGINEERED BY: NANCHARAI AH,K/KANKALE,S



Performance Characteristics

1st Winding 1st Connection

Design: 50ED3190E**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.44	95.69	96.21	96.36	96.29	94.79	0.00
% PF	81.6	81.29	81.6	76.14	66.41	44.14	2.16
AMPS	138.2	127.3	109.52	88.02	67.32	51.45	42.02

TORQ(FL)#FT 3538.06
AMPS(LR) 643.68

TORQ(LR)%FL 100.94
PF AT START 0.2

TORQ(BD)%FL 243.62

This motor is capable of two cold or one hot start with a maximum connected load inertia of 9742 Lb-Ft Sq (410.14 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 12 seconds. Safe stall time at 100% voltage is 74 seconds cold, 27 seconds hot. Rotor inertia is 283.31 Lb-Ft Sq (11.93 Kg-meter Sq).

Open Circuit A-C: 0.621

Short Circuit D-C: 0.033

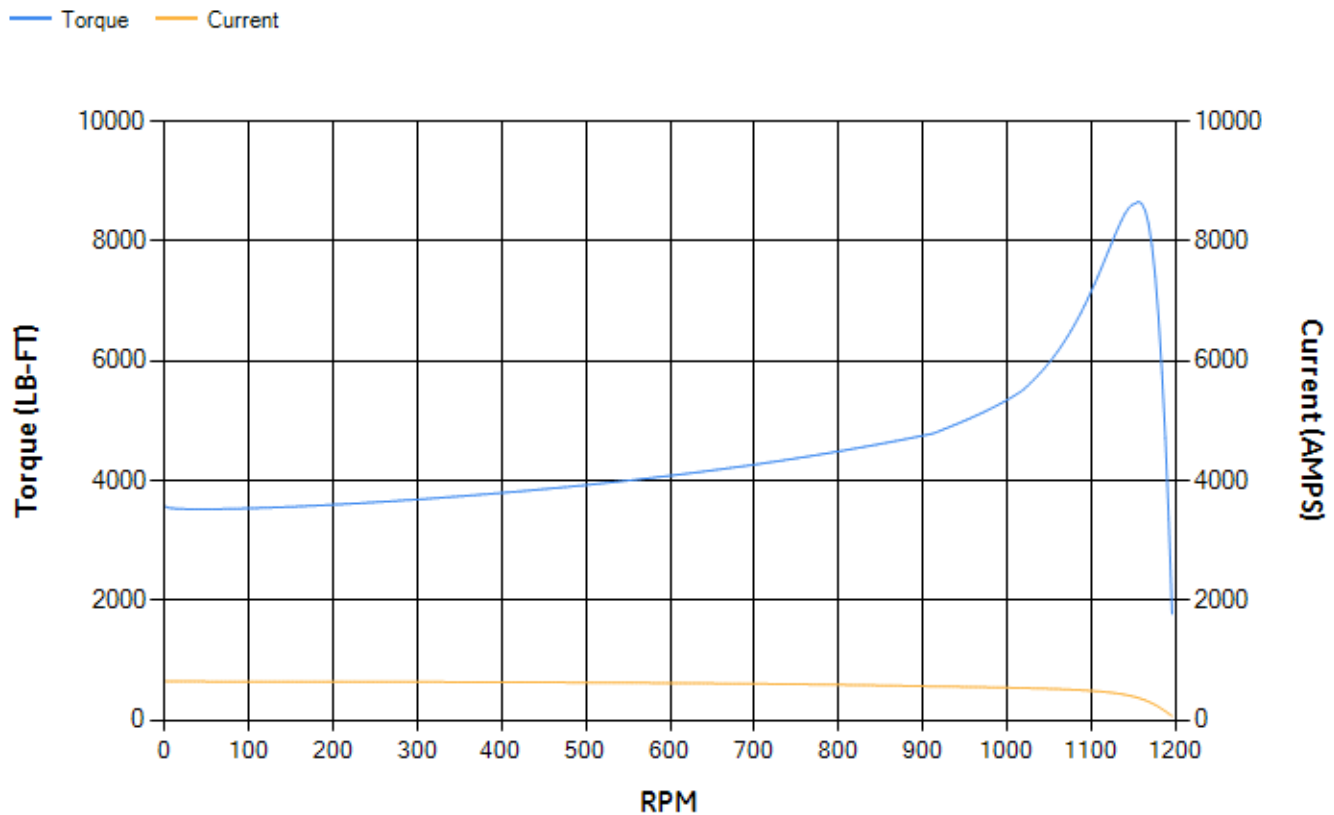
Short Circuit A-C: 0.037

X/R Ratio: 12.348

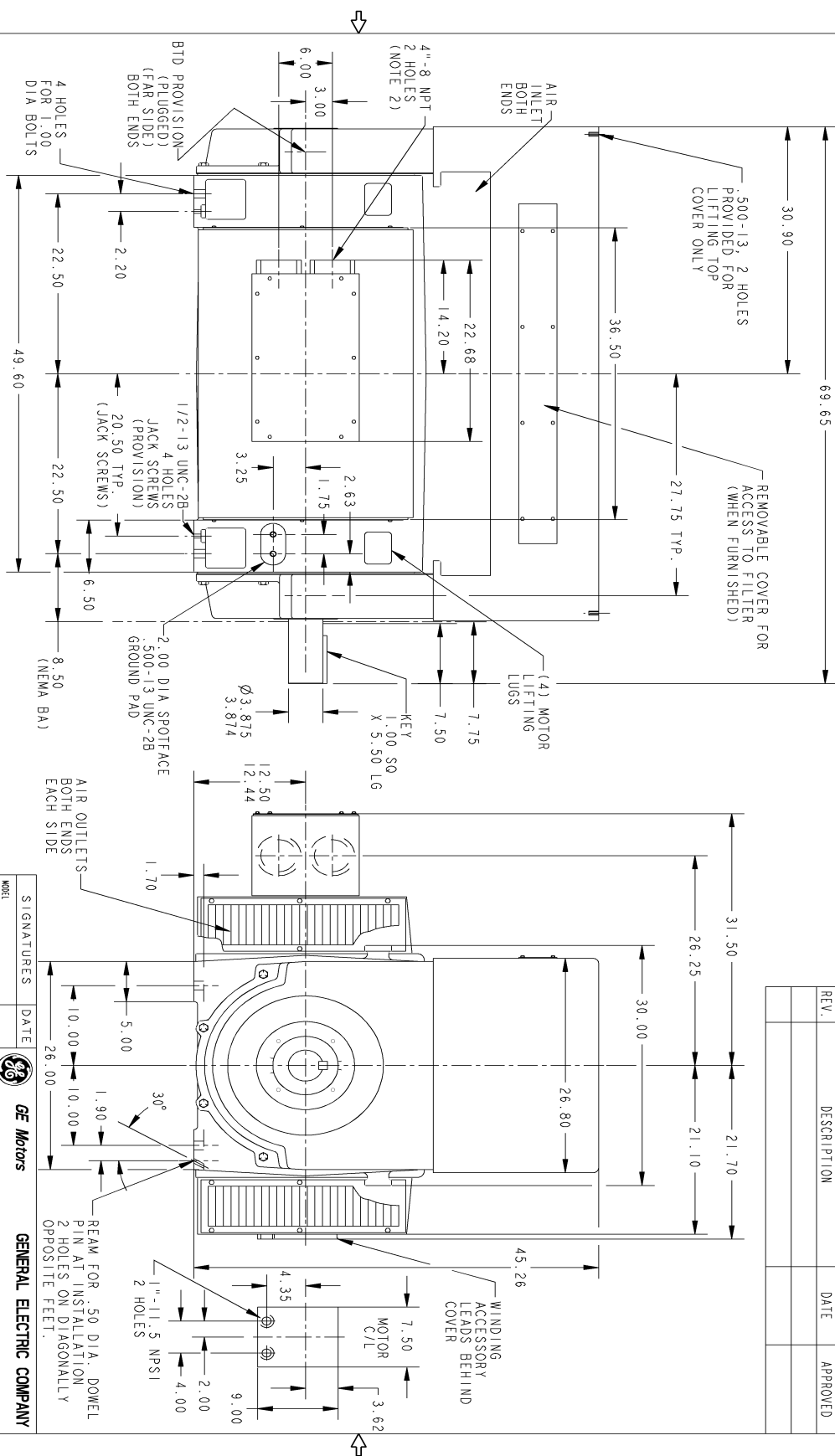
Stator Slots: 72

Rotor Slots: 58

Speed Torque Current Curve (First Connection, First Speed)



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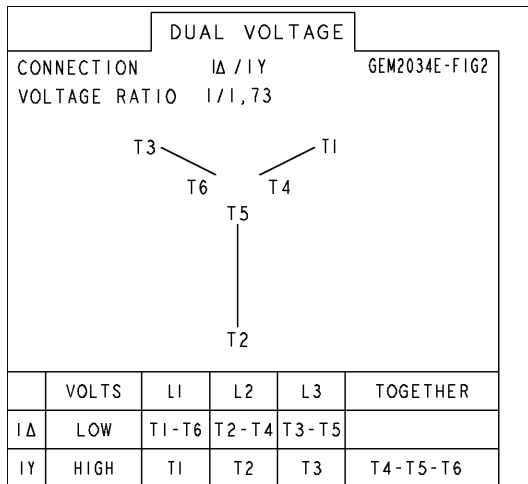


REVISIONS		
REV.	DESCRIPTION	DATE

S I G N A T U R E S		D A T E	
MODEL		SACÜ	09/30/16
DETAIL		SACÜ	09/30/16
CHECKED	HAREHAM	09/30/16	
ENÜ	SACÜ	09/30/16	
WG			
QUALITY			
ISSUED	SACÜ	09/30/16	
SÜ			
SCALE: .09			
REF. No.: 50DP4106G001 DBV			
SHEET 1 of 1			

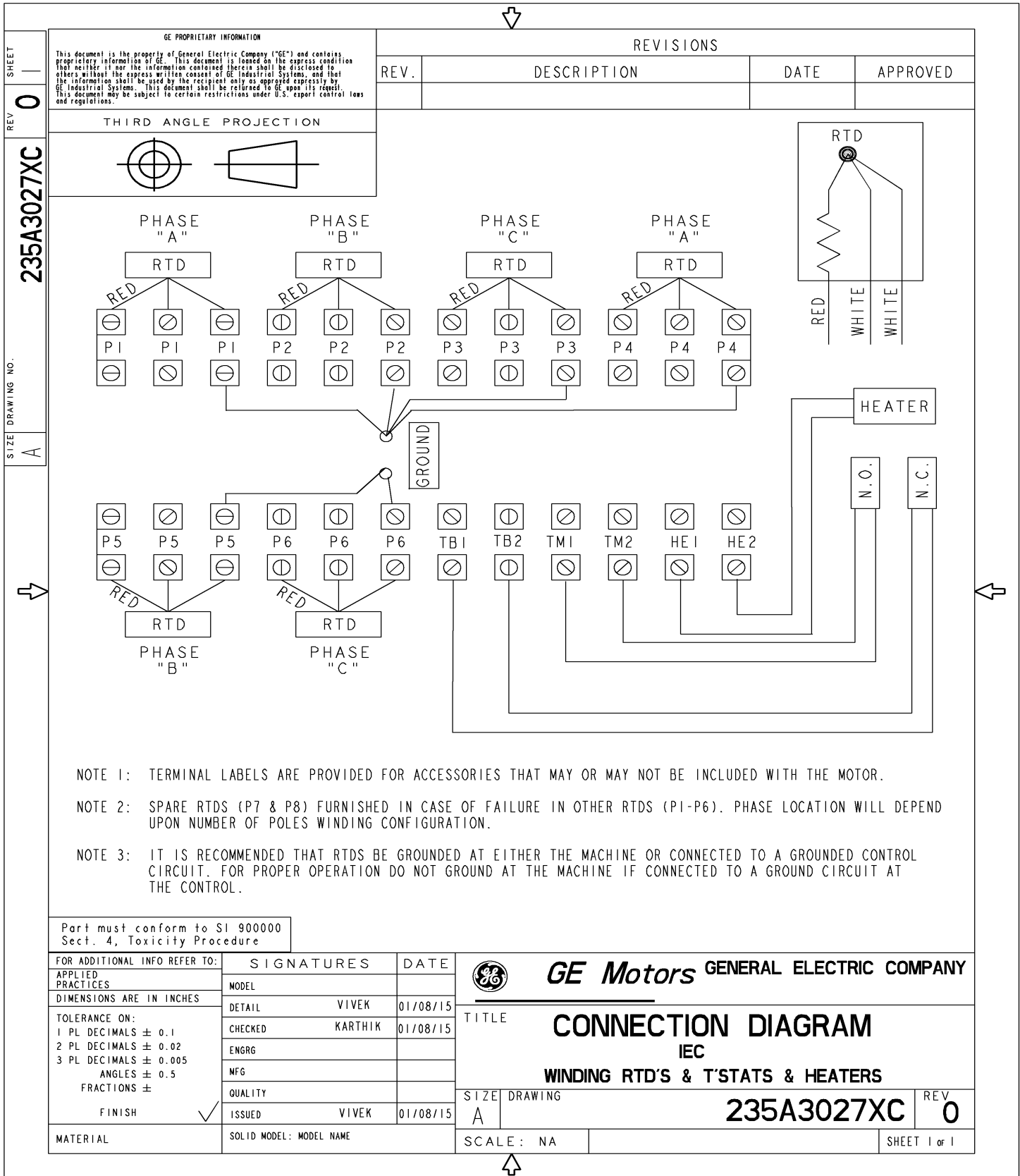
Marks:

Connection Diagram GEM2034E-FIG2



Heater Connection 3027JE-1C





End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	119D1866AN1	119D1866AP1
Bearing	235A2523AF03	235A2523AF03
Slinger/Inproseal	235A2300HC1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9025G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

