

Product Information Packet

January 12, 2017

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

Model Number:	5KS513SAA363A
Catalog Number:	Q5021
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6C00HE

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS513SAA363A	Estimated Weight:	7150 Lbs
Outline Drawing:	239C6C00HE	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	50BD3163B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5013S	Insulation Class:	F
Phases:	3	NEMA Design:	--
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	600HP 444KW	Guaranteed Efficiency:	95.0
RPM:	1190	3/4 Load Efficiency:	96.5
Voltage:	575	KVA Code:	F
Hertz:	60	Max KVAR:	131.5
Amps - FL:	539.0	Power Factor:	87.0
Service Factor:	1.00	Bearing - DE:	6320ZC3
Alt Service Factor:	--	Bearing - ODE:	6320ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

HTR LDS HE1-HE2 115V 350W
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
 VAR TORQUE RANGE 0-60 HZ
 FOR DIRECT COUPLED LOAD ONLY

Additional Information:

6P - S EXTN - SPLIT LEAD
 2500 CU IN - 2(4.00" NPT)
 C/B GRD PLATE
 115V HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX
 SPACE HEATER CAUTION NAMEPLATE
 NEMA TYPE GRD PAD
 F1 MOUNTING
 PROVISION FOR BTD ON BOTH ENDS PLUGGED
 CLASS F RISE AT 1.00 SF

Performance Characteristics

1st Winding 1st Connection

Design: 50BD3163B

Marks:

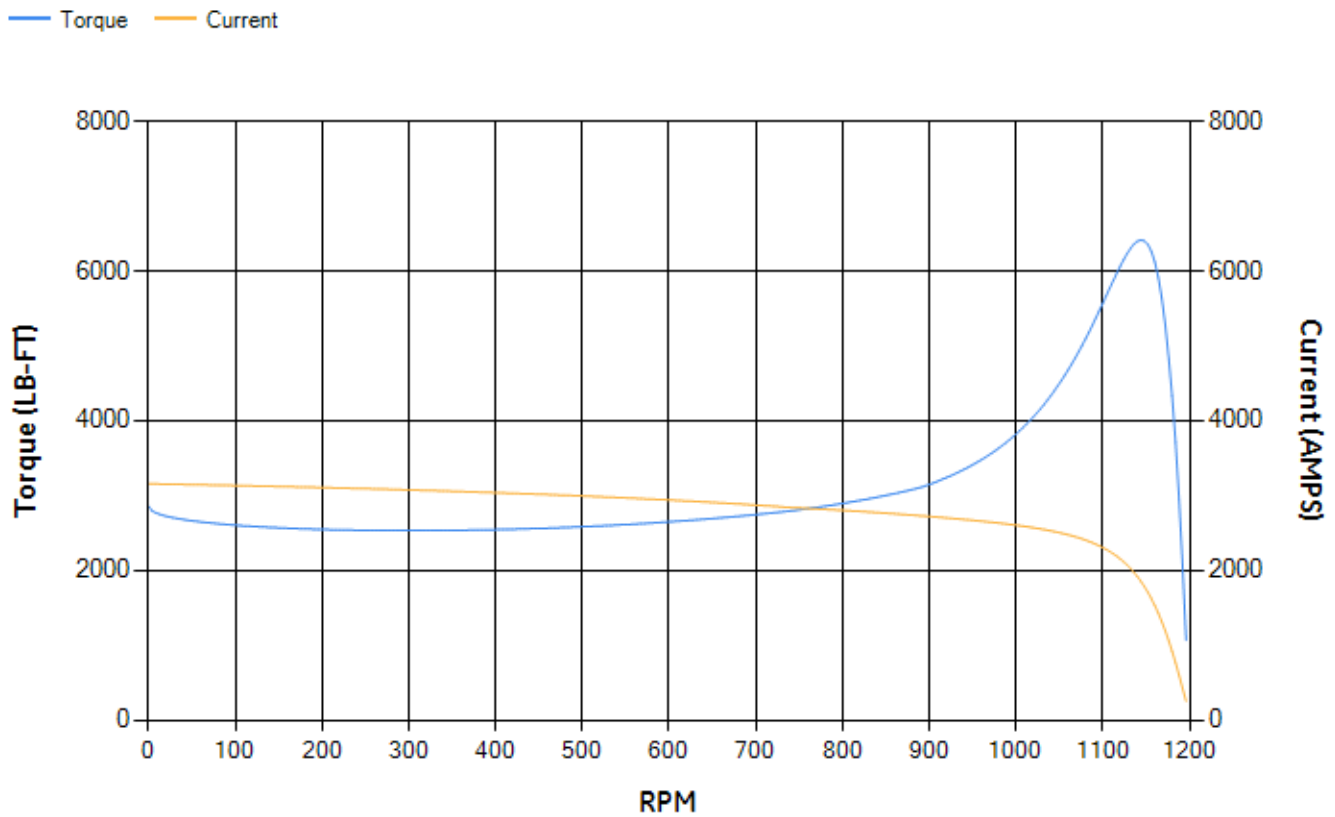
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.34	95.63	96.22	96.5	96.62	95.54	0.00
% PF	86.98	87.18	87.08	85.33	79.36	60.05	2.84
AMPS	677.21	619.63	536.3	409.18	292.95	195.77	146.72

TORQ(FL)#FT	2651.68	TORQ(LR)%FL	107.64	TORQ(BD)%FL	241.38
AMPS(LR)	3156.95	PF AT START	0.22		

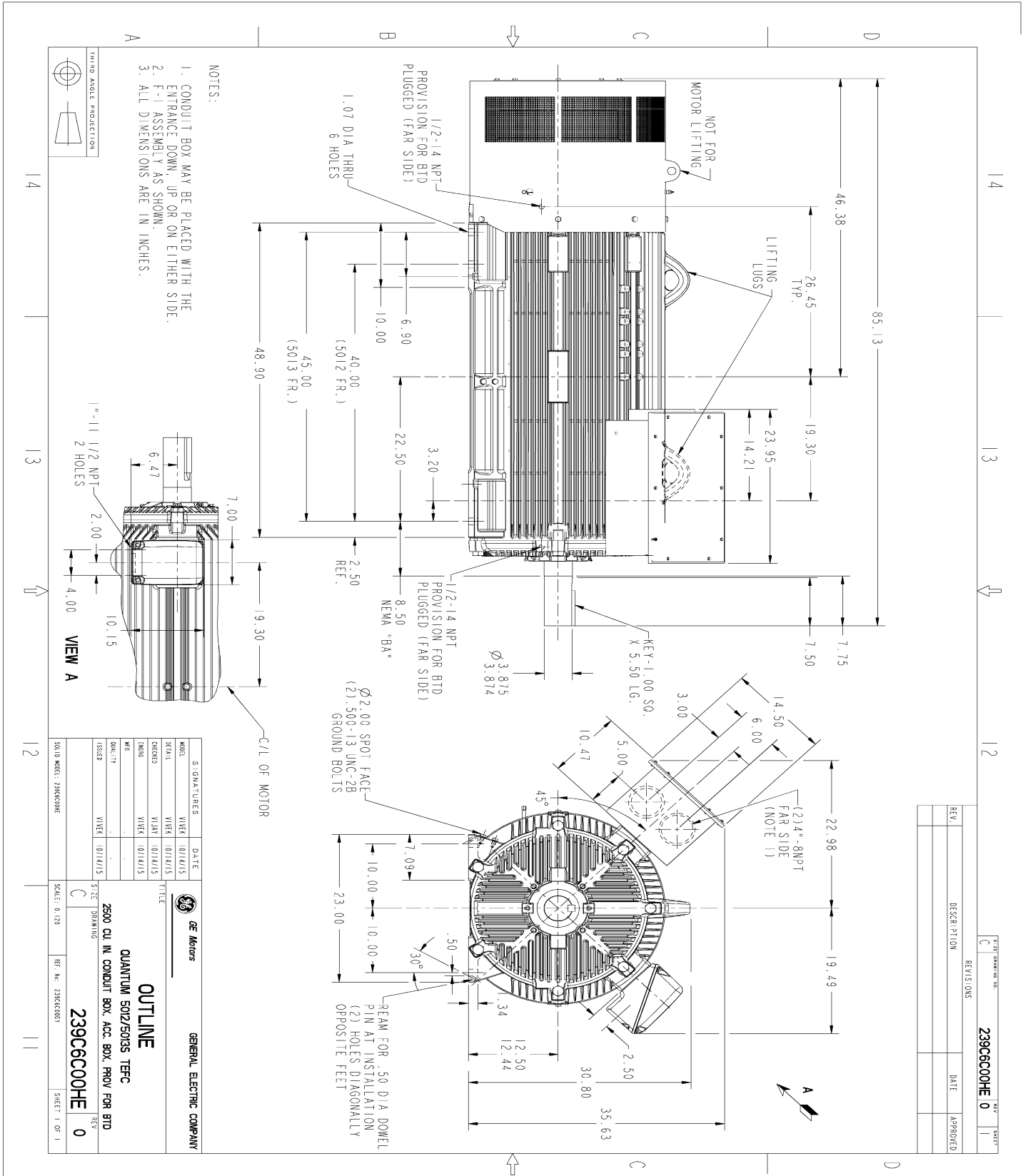
This motor is capable of two cold or one hot start with a maximum connected load inertia of 23092 Lb-Ft Sq (972.17 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 41 seconds. Safe stall time at 100% voltage is 97 seconds cold, 49 seconds hot. Rotor inertia is 369.52 Lb-Ft Sq (15.56 Kg-meter Sq).

Open Circuit A-C:	0.973	Short Circuit D-C:	0.04
Short Circuit A-C:	0.043	X/R Ratio:	14.921
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

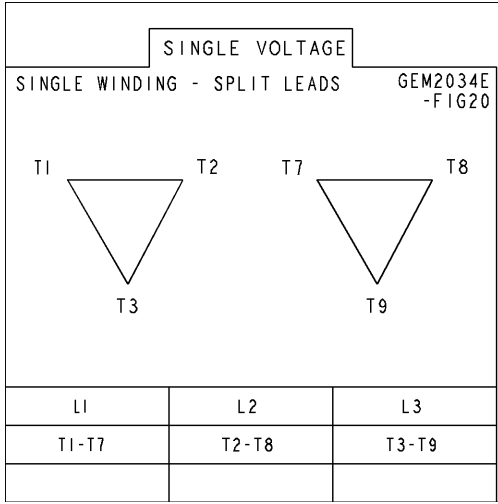


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Connection Diagram
GEM2034E-FIG20



Heater Connection
3027JE-1C

