

Product Information Packet

January 21, 2017

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

Model Number:	5KS511DAE6023C
Catalog Number:	V953
Instruction Manual:	GEK-95352
Connection Diagram:	GEM2034E-FIG19
Outline Drawing:	148CA51VMKKGPA0001

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:	5KS511DAE6023C	Estimated Weight:	4150 Lbs
Outline Drawing:	148CA51VMKKGPA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG19	Enclosure:	WPI
Instruction Book:	GEK-95352	Encl Construction:	OPEN
Design Code:	50ED1310AD	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L5011TP24	Insulation Class:	F
Phases:	3	NEMA Design:	-
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	600HP 444KW	Guaranteed Efficiency:	94.5
RPM:	1780	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	91.0
Amps - FL:	660.0	Power Factor:	90.0
Service Factor:	1.15	Bearing - DE:	6219ZC3
Alt Service Factor:	--	Bearing - ODE:	235A2537AA01

Enclosure is Weather Protected One

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-I, CSA ENCL DP
 VIBRATION LIMIT = 0.100 IN/SEC
 THERMOSTAT LEADS TB1-TB2:TRIP
 HTR LDS HE1-HE2 115V 350W
 UPPER OIL: 12.0 QTS ISO 150
 LOWER OIL: 2.5 QTS ISO 32
 5600 LBS MIN CONTINUOUS DOWNTHRUST REQ'D
 STAMP NP249A5564P009 AS FOLLOWS:
 REQUIRED COOLING WATER:2.0 GPM
 MAXIMUM COOLING WATER:3.5 GPM
 MAXIMUM PRESSURE:100 PSI
 MAXIMUM WATER INLET TEMP :95 DEG F
 PREMIUM EFFICIENT MOTOR
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL
 1.0 SF. VAR TORQUE RANGE 0-60 HZ
 SUITABLE FOR 500 HP, 380V, 50 HZ WITH
 658 AMPS AND 1470 RPM AT 1.0 S.F

Additional Information:

4 POLE,VERT HOLLOW SHAFT HIGH THRUST ()
 ACTUAL EFFICIENCY = 94.5
 SELF-RELEASE COUPLING,BX=2.188
 PART WINDING START
 SPECIAL BALANCE
 (3) NC THERMOSTAT LEADS TO MAIN C/BOX
 115V HEATER LEADS TO MAIN C/BOX

RCF=1670 CPM CG=30.3 IN STAT DEF=0.0126 IN
C/B GRD PLATE
BEARING LIFE 8760 HOURS AT 44796 LB THRUST
5700 Cu. In. CBOX
AEGIS SHAFT GROUNDING RING ON LOWER END
INSULATED LOWER HALF COUPLING FOR TOP BRG

Performance Characteristics

1st Winding 1st Connection

Design: 50ED1310AD

Marks:

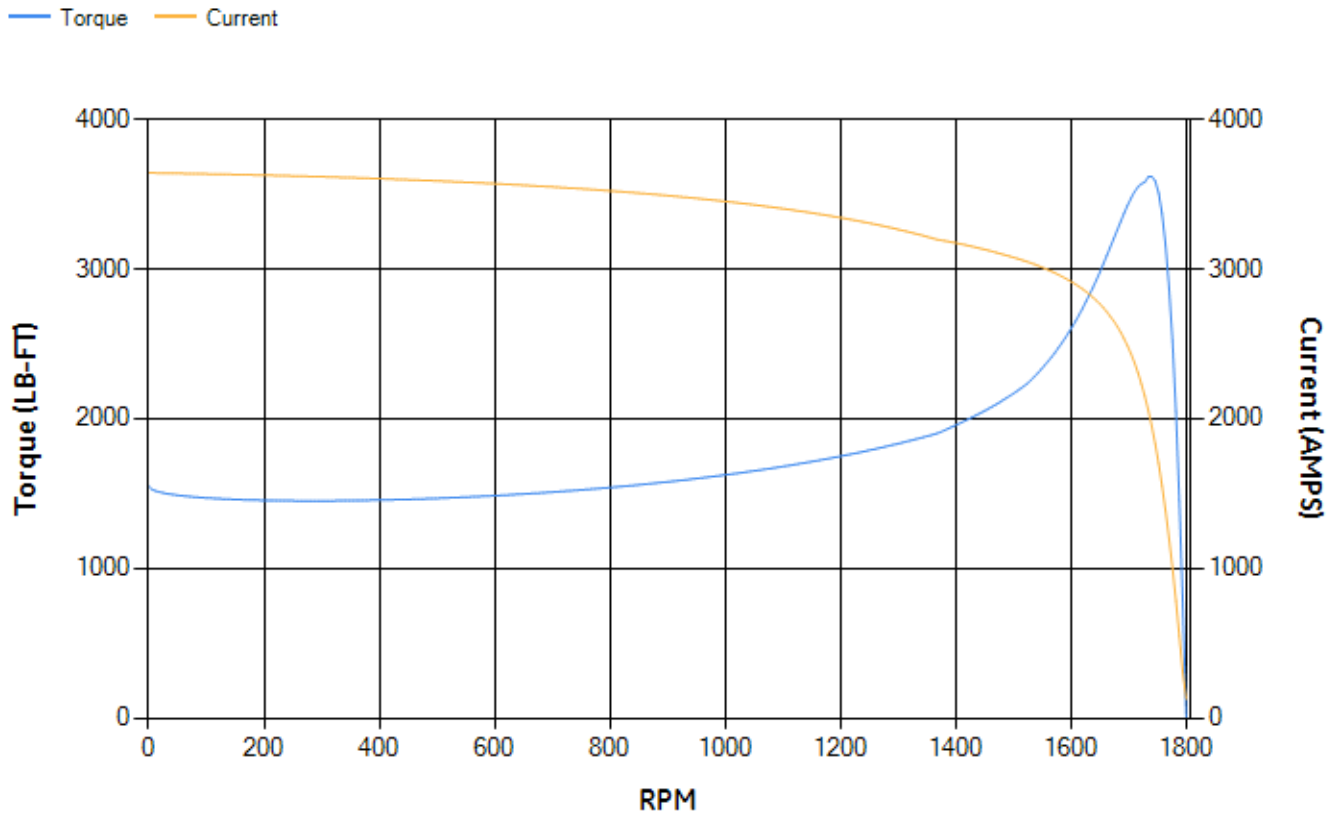
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.91	94.2	94.75	94.83	94.44	91.72	0.00
% PF	89.27	89.77	90.99	89.8	86.53	72.58	8.43
AMPS	837.37	763.69	650.41	494.59	343.6	210.88	126.89

TORQ(FL)#FT	1769.21	TORQ(LR)%FL	87.61	TORQ(BD)%FL	201.8
AMPS(LR)	3642.23	PF AT START	0.21		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3742 Lb-Ft Sq (157.54 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 19 seconds. Safe stall time at 100% voltage is 52 seconds cold, 31 seconds hot. Rotor inertia is 159.9 Lb-Ft Sq (6.73 Kg-meter Sq).

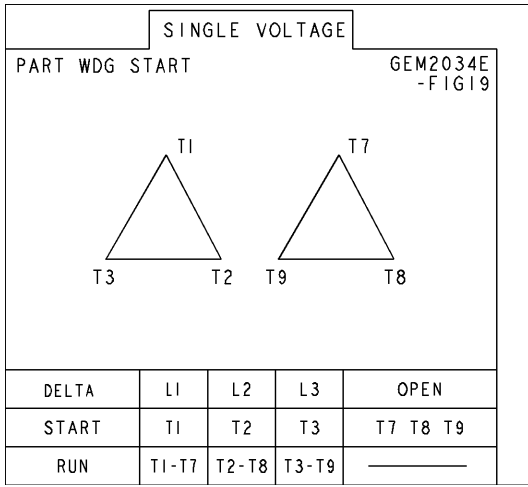
Open Circuit A-C:	1.291	Short Circuit D-C:	0.026
Short Circuit A-C:	0.042	X/R Ratio:	9.771
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG19



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	119D2111AA-G01	119D2113AG-G01
Bearing	235A2525AD01	235A2537AA01
Slinger/Inproseal		

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

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9048G02

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	