

Product Information Packet

January 13, 2017

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

Model Number:	5KS182SAE226A
Catalog Number:	V980
Instruction Manual:	GEK-95655
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5818PLP5210

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

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Marks:

MODEL NUMBER:	5KS182SAE226A	Estimated Weight:	76 Lbs
Outline Drawing:	4002B5818PLP5210	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEK-95655	Encl Construction:	SD
Design Code:	18BD1124AA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L182HP10	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	89.5 %
Output Power:	3HP 2.2KW	Guaranteed Efficiency:	87.5
RPM:	1765	3/4 Load Efficiency:	89.7
Voltage:	230/460	KVA Code:	K
Hertz:	60	Max KVAR:	1.3
Amps - FL:	8.0/4.0	Power Factor:	78.0
Service Factor:	1.15	Bearing - DE:	6307ZC3
Alt Service Factor:	--	Bearing - ODE:	6206-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

PREMIUM EFFICIENT MOTOR
HTR LDS H 115V 45W
SEVERE DUTY
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:
1.0 SF VAR TORQUE RANGE 0-60 HZ
IP 55
SUITABLE FOR 190/380V 50 HZ WITH
9.4/4.7 AMPS AND 1450 RPM AT 1.0 S.F

Additional Information:

4P - HP EXTN
C/BOX 30 CU IN-0.75 NPT
AUX LEADS EXIT WITH MOTOR LEADS
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 6.5 INCHES
SOLID SHAFT NORMAL THRUST
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8760 HOURS AT 652 LB THRUST

Performance Characteristics

1st Winding 1st Connection

Design: 18BD1124AA

Marks:

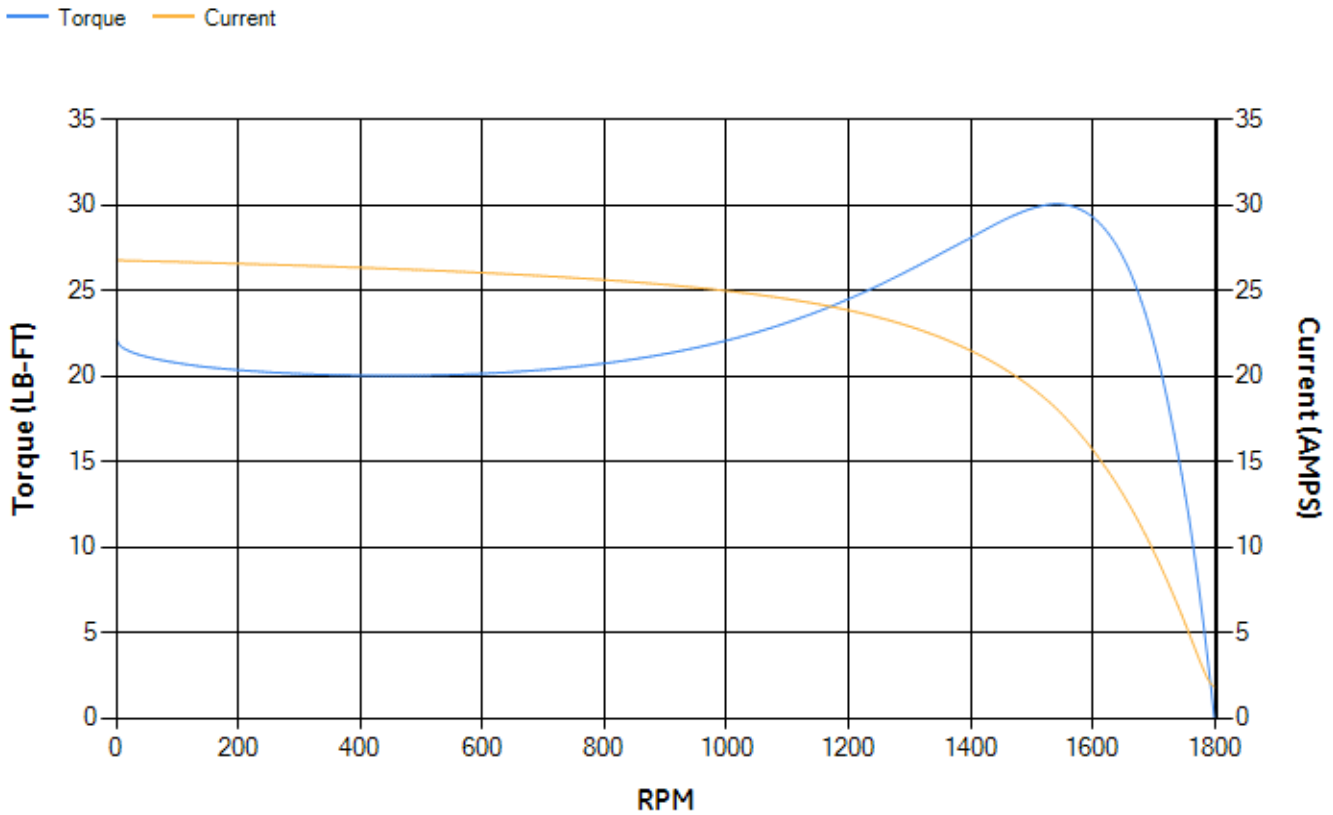
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.75	89.14	89.75	89.66	88.36	82.36	0.00
% PF	81.28	80.34	79.73	72.32	60.92	39.89	7.35
AMPS	4.87	4.51	3.92	3.25	2.61	2.14	1.82

TORQ(FL)#FT	8.93	TORQ(LR)%FL	247.75	TORQ(BD)%FL	333.63
AMPS(LR)	26.76	PF AT START	0.52		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 160 Lb-Ft Sq (6.74 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 47 seconds. Safe stall time at 100% voltage is 105 seconds cold, 83 seconds hot. Rotor inertia is 0.28 Lb-Ft Sq (0.01 Kg-meter Sq).

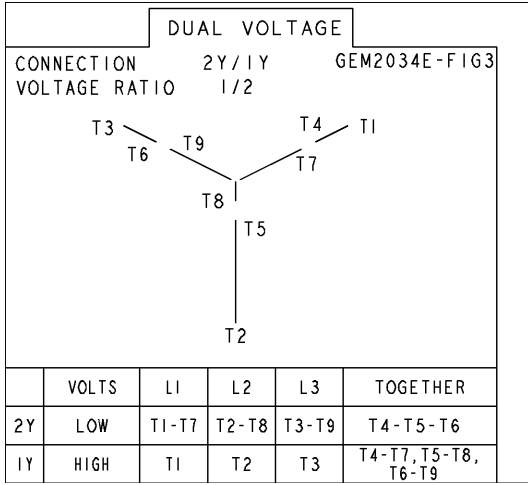
Open Circuit A-C:	0.271	Short Circuit D-C:	0.009
Short Circuit A-C:	0.014	X/R Ratio:	3.257
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



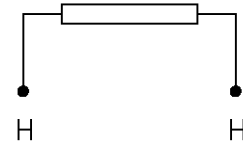
Marks:

Connection Diagram
GEM2034E-FIG3



Heater Connection
3027JE-1

FIG. 1
HEATER CONN.



CONTROL	L1	L2
VOLTAGE ONLY	H	H