



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

May 15, 2021

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

Model Number:	5KS182SAA200D1
Catalog Number:	M9889
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5818PBP5311

Accessory Connection Diagrams

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

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Marks:

MODEL NUMBER:	5KS182SAA200D1	Estimated Weight:	76 Lbs
Outline Drawing:	4002B5818PBP5311	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	18BD1229A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	182TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	89.5 %
Output Power:	3HP 2.2KW	Guaranteed Efficiency:	88.5 %
RPM:	1770	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	K
Hertz:	60	Max KVAR:	1.4
Amps - FL:	4.0	Power Factor:	77.5
Service Factor:	1.15	Bearing - DE:	6307ZC3
Alt Service Factor:	--	Bearing - ODE:	6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 35BC03JP30 ODE BRG 30BC02JP30

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS182SAA200D1 S/N: XXX

CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200C GC

CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C

IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR

SURF TEMP 200C AT 1.15SF ON SINE-WAVE PWR

OR 200C VT OR 200C CT OR 200C CHP PWM CONTROL

ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB

VT 0 - 60 HZ, CT 3-60 HZ, CHP 60-90 HZ.



Additional Information:

4P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 55 CU IN-1.00 NPT
F1 CONDUIT BOX MOUNTING
"C" FACE AT DE ENDSHIELD AK=8 1/2"
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL DE / SLINGER ODE
GROUND SCREW ON FRAME
SHAFT RUNOUT LIMIT .001" TIR
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 18BD1229A

Marks:

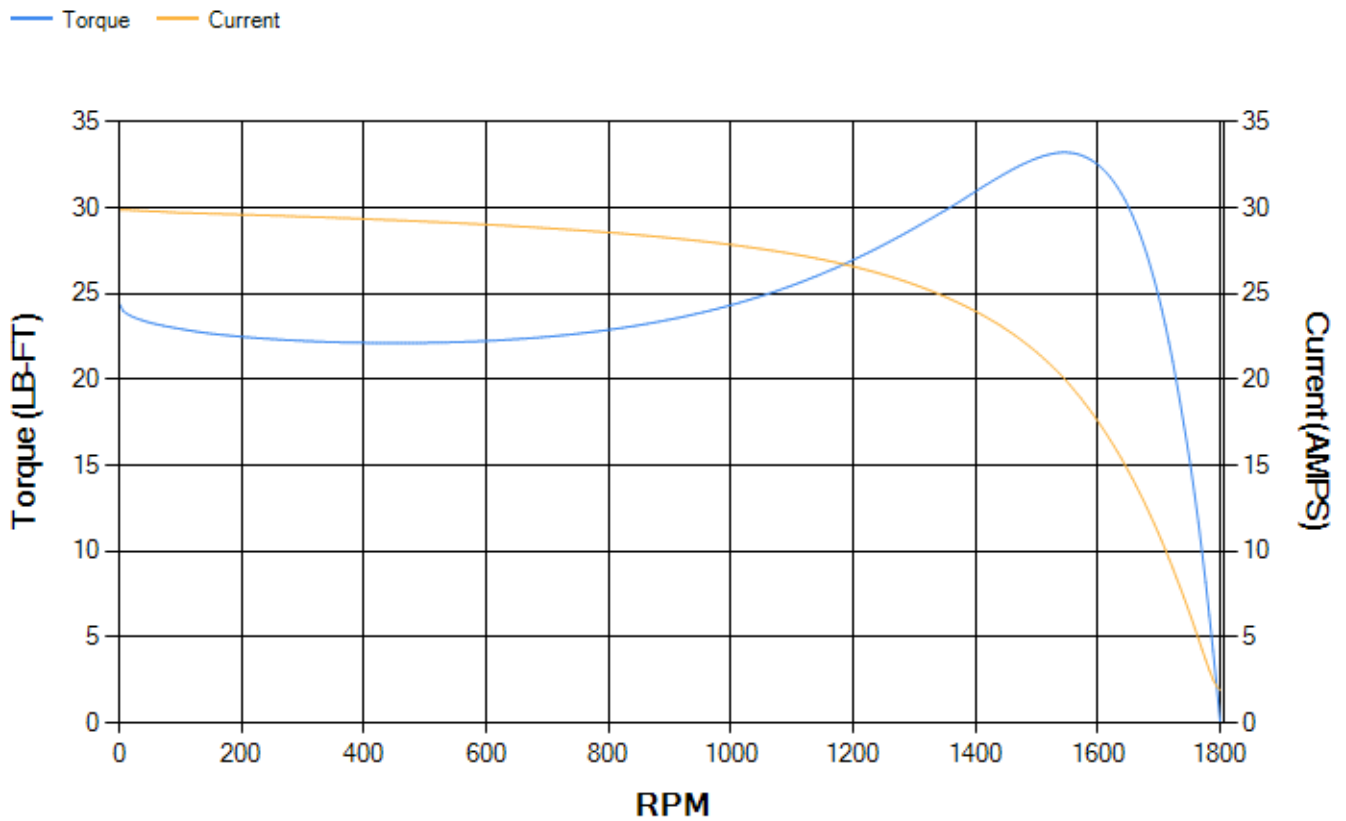
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.45	89.79	90.36	90.25	89.01	83.29	0.00
% PF	81.27	80.1	79.15	71.05	58.95	37.75	6.46
AMPS	4.83	4.49	3.93	3.28	2.68	2.23	1.93

TORQ(FL)#FT	8.9	TORQ(LR)%FL	274.23	TORQ(BD)%FL	370.29
AMPS(LR)	29.91	PF AT START	0.55		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 114 Lb-Ft Sq (4.8 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 30 seconds. Safe stall time at 100% voltage is 67 seconds cold, 52 seconds hot. Rotor inertia is 0.3 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C:	0.29	Short Circuit D-C:	0.007
Short Circuit A-C:	0.014	X/R Ratio:	2.789
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5286PE1	4004D5281SG1
Bearing	235A2501AE01	235A2502AM01
Slinger/Inproseal	316A5384AJ1	149C4399G16

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5786PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

