



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

February 19, 2021

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

Model Number:	5KS182XAA208D2
Catalog Number:	M9419
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5818PAP5311

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:	5KS182XAA208D2	Estimated Weight:	76 Lbs
Outline Drawing:	4002B5818PAP5311	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	18BD1124AA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	182T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	89.5 %
Output Power:	3HP 2.2KW	Guaranteed Efficiency:	88.5 %
RPM:	1765	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	K
Hertz:	60	Max KVAR:	1.3
Amps - FL:	4.0	Power Factor:	78.5
Service Factor:	1.15	Bearing - DE:	6206ZC3
Alt Service Factor:	--	Bearing - ODE:	6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 30BC02JP30 ODE BRG 30BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS182XAA208D2 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
 CL1 ZONE2 AEXNAIIC 200C FOR CL1DIV2 GRP ABCD 200C
 IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 200 C AT 1.15 SF ON SINE-WAVE PWR
 OR 200 C VT OR 200 C CT OR 200 C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0 SF 40 C 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
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL BOTH ENDS
GROUND SCREW ON FRAME
SHAFT RUNOUT LIMIT .001" TIR
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,
AND PLUG THREADS
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 18BD1124AA

Marks:

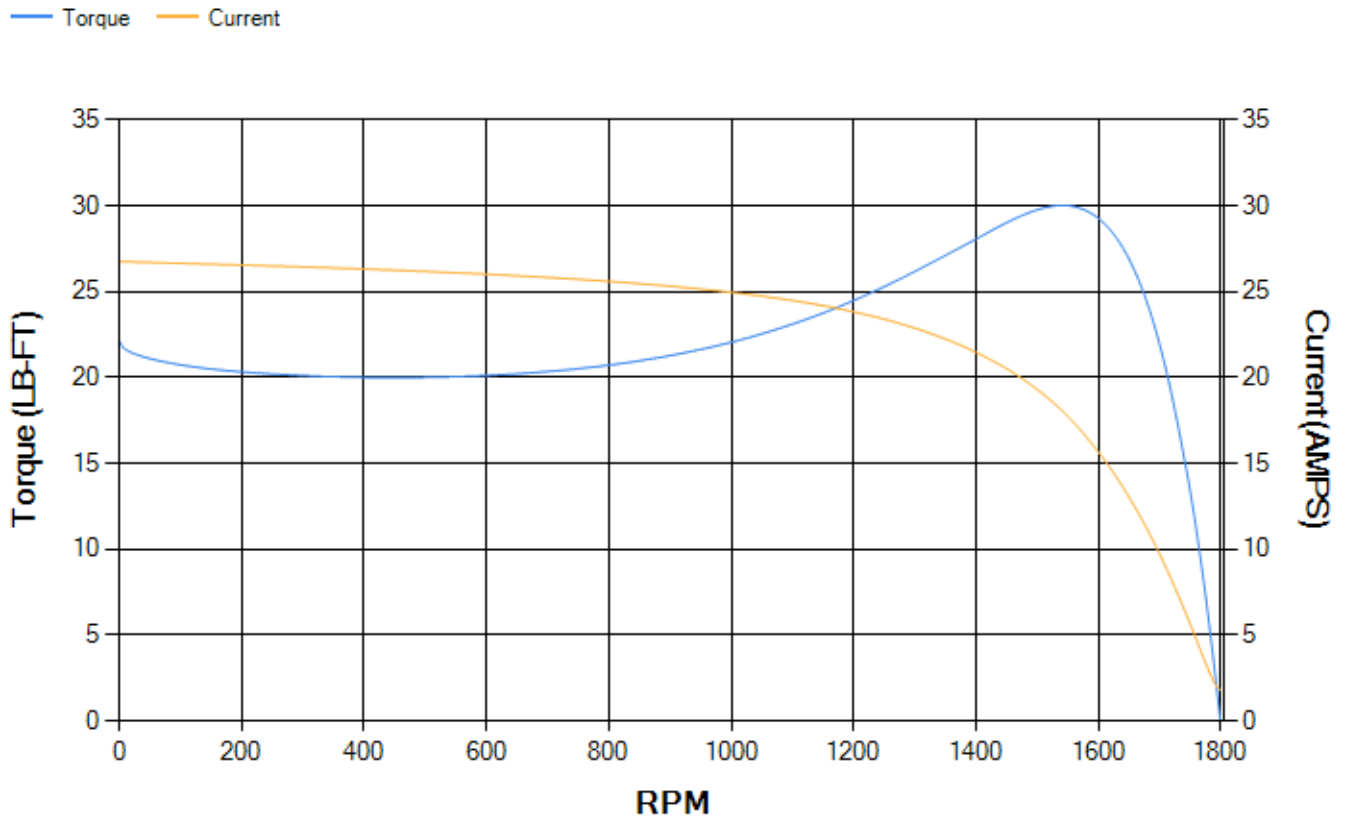
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.75	89.13	89.75	89.66	88.36	82.35	0.00
% PF	81.25	80.3	79.69	72.28	60.86	39.83	7.34
AMPS	4.87	4.51	3.93	3.25	2.61	2.14	1.82

TORQ(FL)#FT	8.93	TORQ(LR)%FL	247.74	TORQ(BD)%FL	333.6
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).

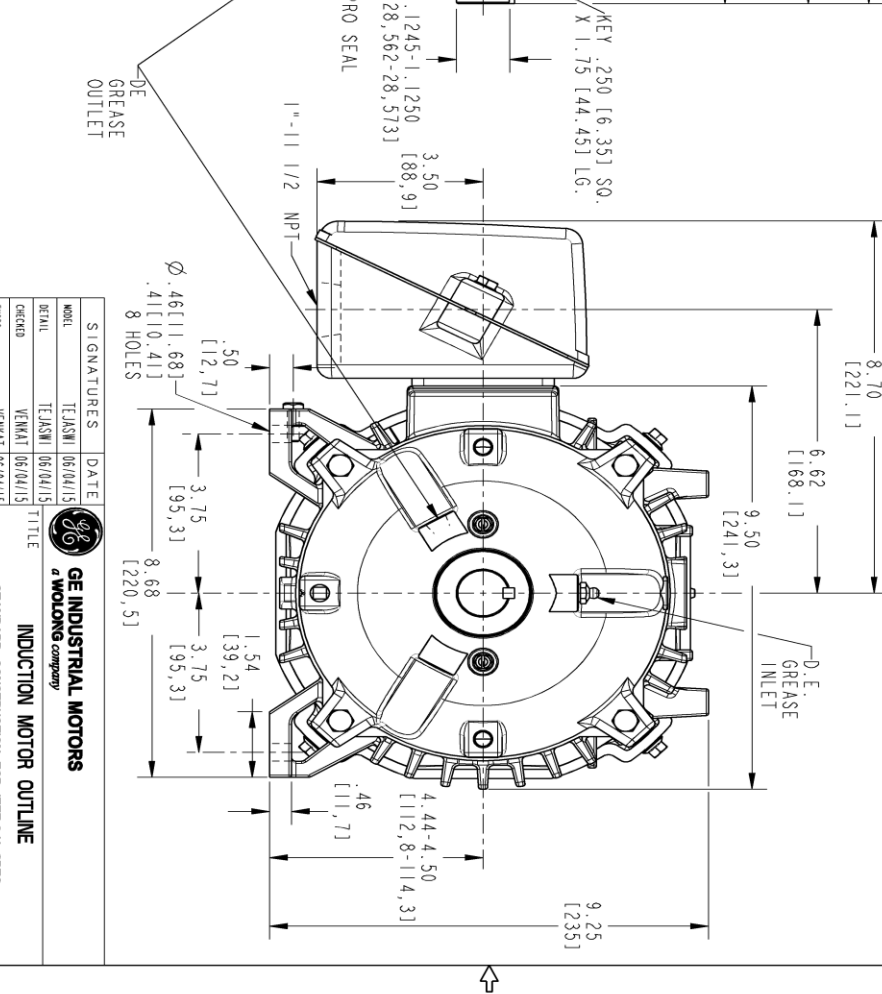
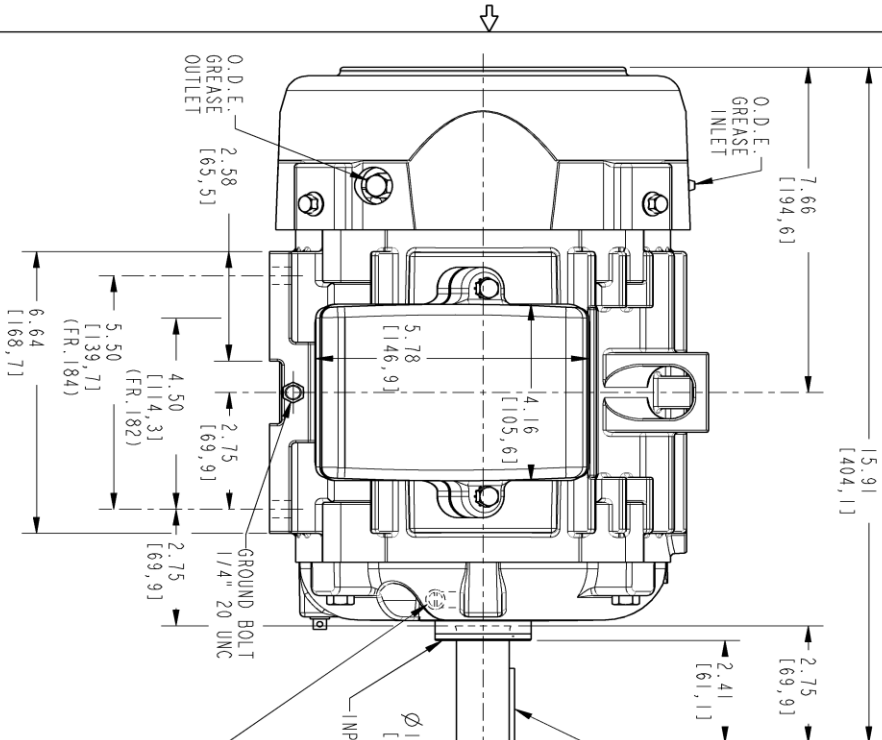
Open Circuit A-C:	0.27	Short Circuit D-C:	0.009
Short Circuit A-C:	0.014	X/R Ratio:	3.257
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



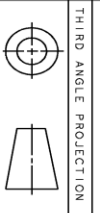
Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
 NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.
 NOTE 4: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC #15-0731	07/17/15	KARTHIK
2	ISAC #16-0079	01/28/16	SRAVANTHI D
3	ISAC# 18-0869	10/28/18	PRAASHANTH



SIGNATURES	DATE	TITLE
TEJASNI	06/04/15	INDUCTION MOTOR OUTLINE STANDARD CONSTRUCTION FOR IEEE-941 SPEC FR182/94 T TERC
TEJASNI	06/04/15	
VENKAT	06/04/15	
VENKAT	06/04/15	
TEJASNI	06/04/15	

QUALITY CONTROL: TEJASNI 06/04/15
 ISSUED: B
 SCALE: 0.400 REF. No.: 4002B5818PAP5311
 SOLID MODEL: 4002B5818PAP5311



4002B5818PAP5311 003
 REV 1

Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5281PB1	4004D5281TG1
Bearing	235A2502AM01	235A2502AM01
Slinger/Inproseal	4002B5914AF2	4002B5914AG2

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	346L620AN-G01
Fan Cover	4003C5786PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

