



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 23, 2020

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

Model Number:	5KS182XAA2004B
Catalog Number:	M9409
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5818PDP5310

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:	5KS182XAA2004B	Estimated Weight:	76 Lbs
Outline Drawing:	4002B5818PDP5310	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:	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:	1765	3/4 Load Efficiency:	89.7 %
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:	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:5KS182XAA2004B 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
 C/BOX 55 CU IN-1.00 NPT
 "C" FACE AT DE ENDSHIELD ROUND FRAME
 VERTICAL MOUNT SHAFT DOWN WITH DRIPCOVER
 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
 BURNDY SERVIT POST 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:

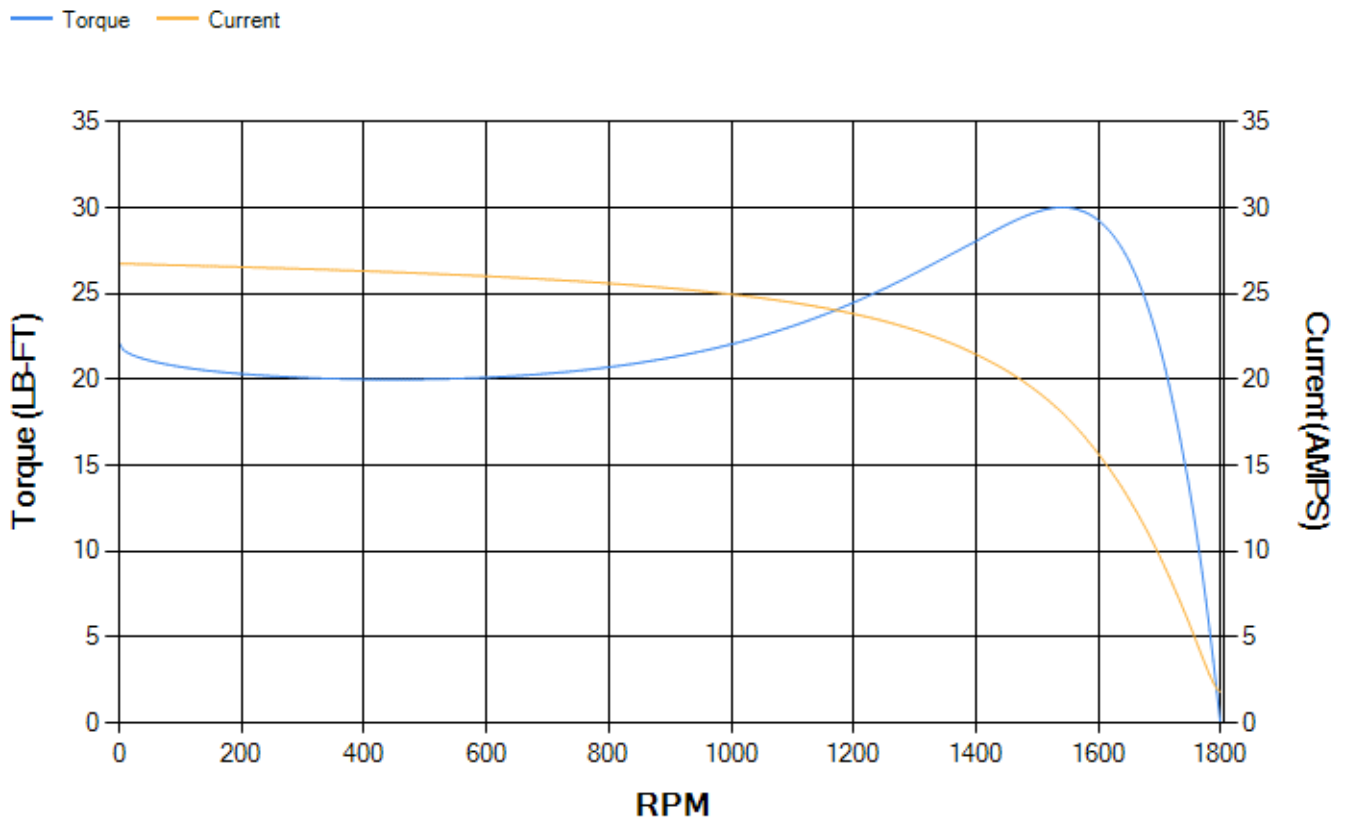
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.75	89.13	89.75	89.66	88.36	82.35	0.00
% PF	81.25	80.3	79.69	72.28	60.86	39.83	7.34
AMPS	4.87	4.51	3.93	3.25	2.61	2.14	1.82

TORQ(FL)#FT	8.93	TORQ(LR)%FL	247.74	TORQ(BD)%FL	333.6
AMPS(LR)	26.76	PF AT START	0.52		

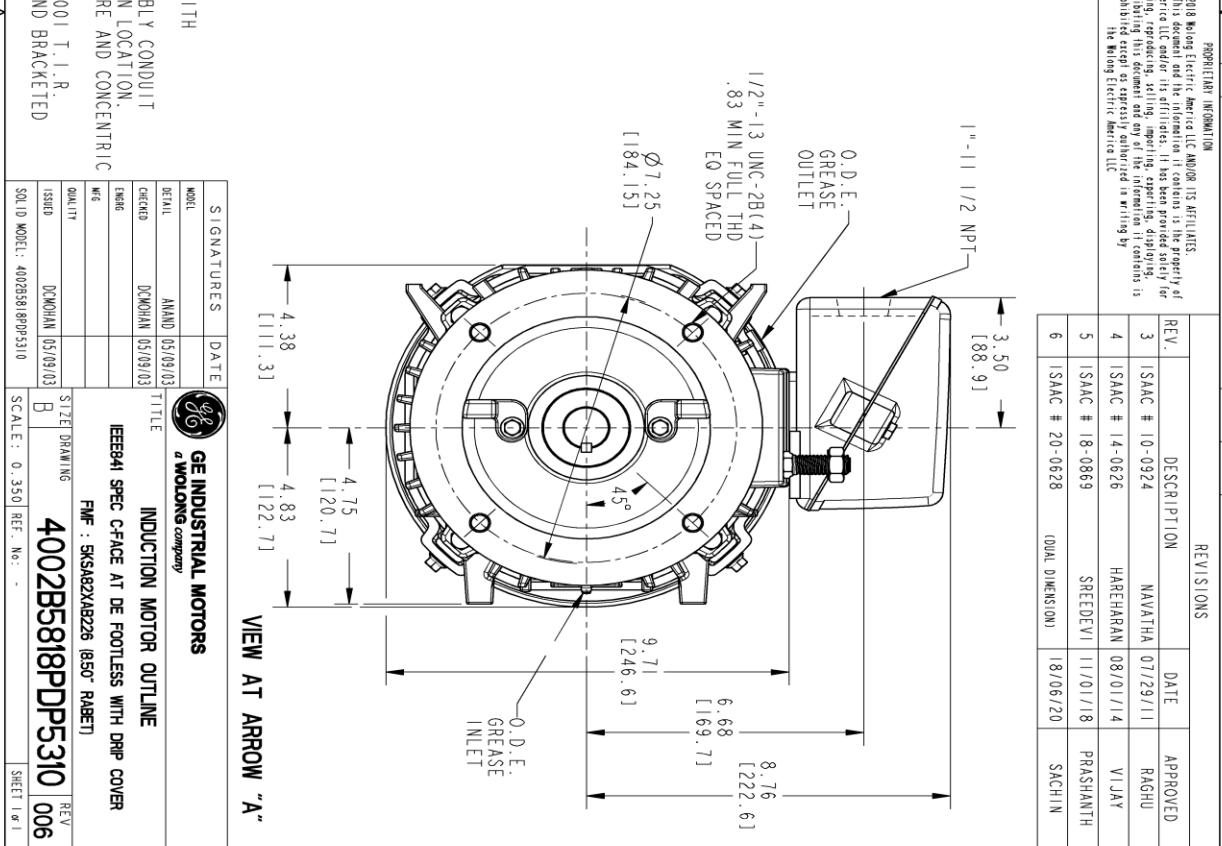
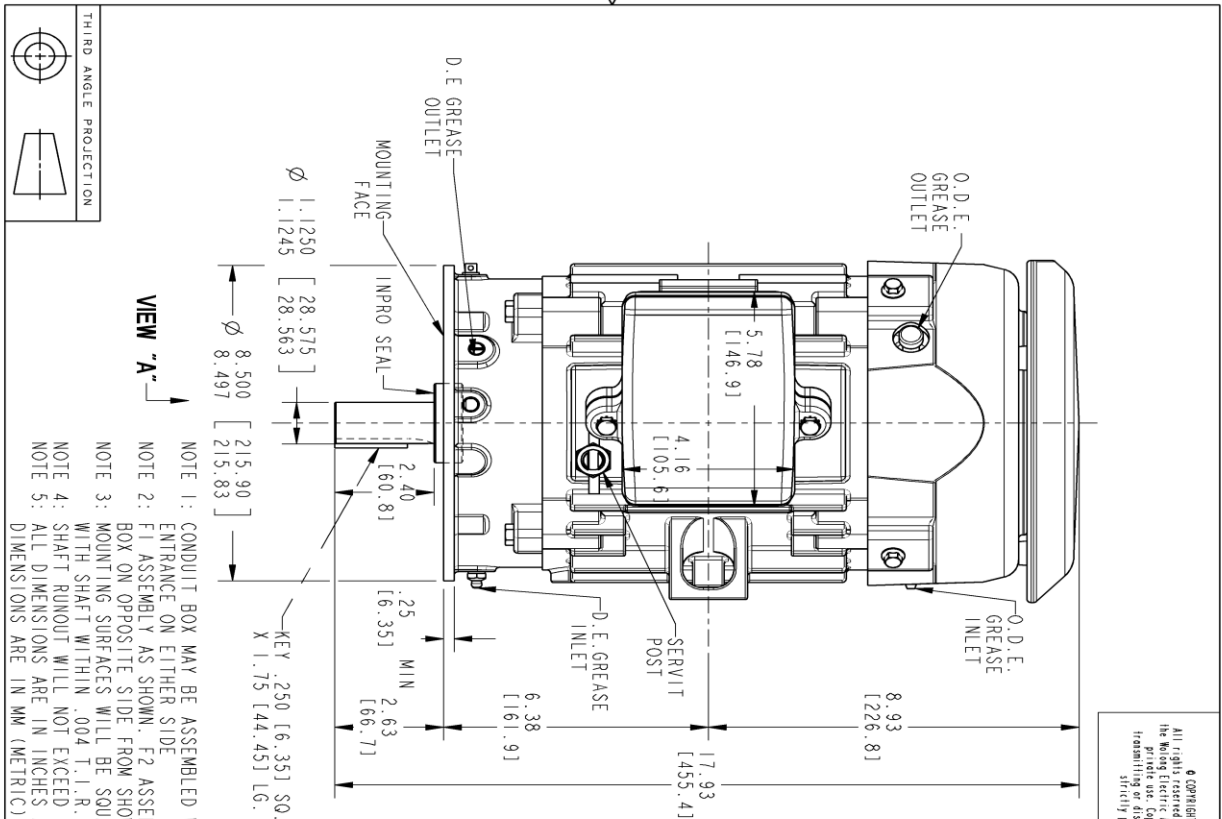
This motor is capable of two cold or one hot start with a maximum connected load inertia of 160 Lb-Ft Sq (6.74 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 47 seconds. Safe stall time at 100% 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:



PROPRIETARY INFORMATION
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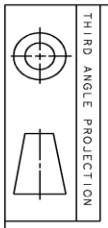
REV.	DESCRIPTION	DATE	APPROVED
3	ISAC # 10-0924	NAVATHA 07/29/11	RAGHU
4	ISAC # 14-0626	HAREHARAN 08/01/14	VIJAY
5	ISAC # 18-0869	SREEDevi 11/01/18	PRASHANTH
6	ISAC # 20-0628	(DUAL DIMENSION)	SACHIN

SIGNATURES	DATE
MANAD 05/09/03	
DCMOHAN 05/09/03	
DCMOHAN 05/09/03	

TITLE: INDUCTION MOTOR OUTLINE
 IEEB94 SPEC C/FACE AT DE FOOTLESS WITH DRP COVER
 FWF : 5KS182XAB226 (850° RABET)

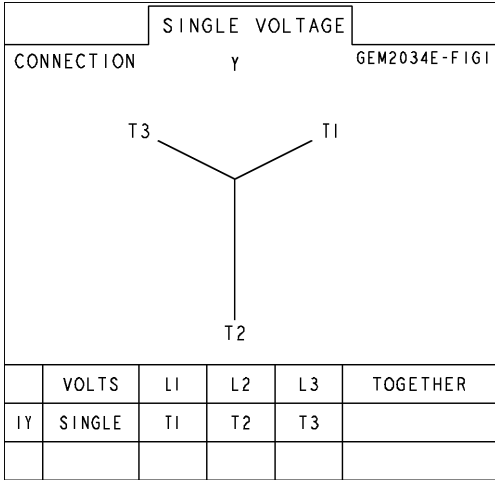
SCALE: 0.350 REF. No. -

4002B5818PDP5310 006



Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5286PE1	4004D5281TG1
Bearing	235A2501AE01	235A2502AM01
Slinger/Inproseal	316A5384AJ1	4002B5914AG2

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	346L620AN-G01
Fan Cover	4003C5518BN-G01

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

