



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:	5KS145XAA2009B
Catalog Number:	M9403
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5814PDP5310

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:	5KS145XAA2009B	Estimated Weight:	50 Lbs
Outline Drawing:	4002B5814PDP5310	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	14BD1068AA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	145TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	86.5 %
Output Power:	1.5HP 1.1KW	Guaranteed Efficiency:	85.5 %
RPM:	1745	3/4 Load Efficiency:	86.3 %
Voltage:	460	KVA Code:	M
Hertz:	60	Max KVAR:	0.9
Amps - FL:	2.2	Power Factor:	74.0
Service Factor:	1.15	Bearing - DE:	6206ZC3
Alt Service Factor:	--	Bearing - ODE:	6205ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 30BC02JP30 ODE BRG 25BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS145XAA2009B 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 30 CU IN-0.75 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: 14BD1068AA

Marks:

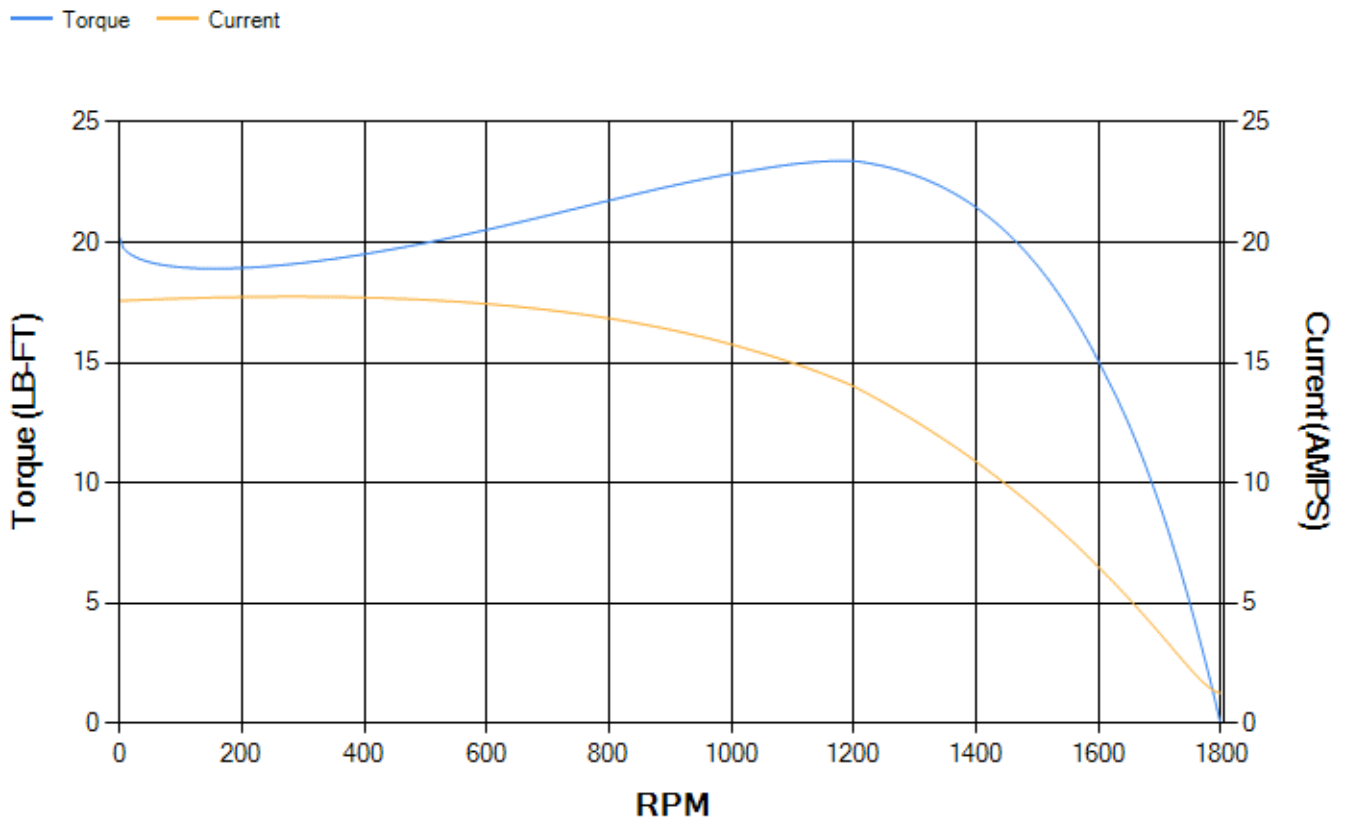
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	85.73	86.09	86.64	86.3	84.31	76.35	0.00
% PF	79.56	77.62	75.6	65.34	51.98	32.44	7.46
AMPS	2.57	2.42	2.13	1.87	1.6	1.42	1.25

TORQ(FL)#FT	4.51	TORQ(LR)%FL	448	TORQ(BD)%FL	500.5
AMPS(LR)	17.57	PF AT START	0.68		

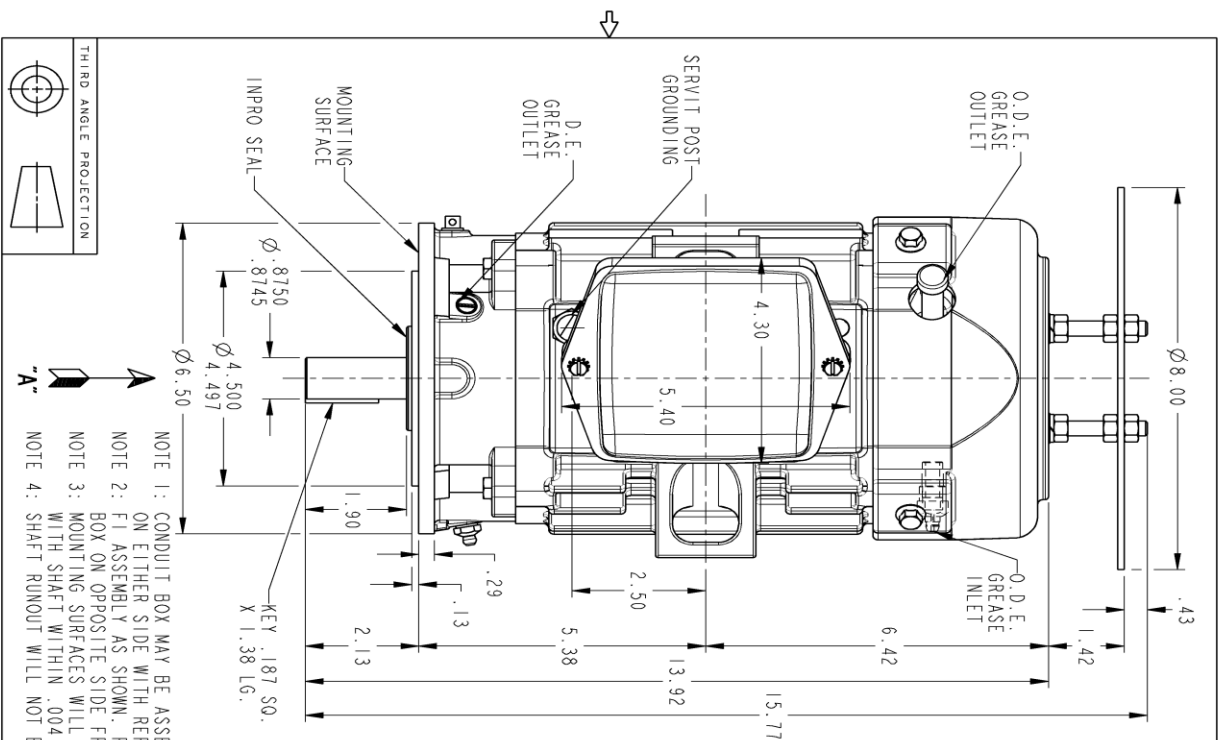
This motor is capable of two cold or one hot start with a maximum connected load inertia of 97 Lb-Ft Sq (4.08 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 30 seconds. Safe stall time at 100% voltage is 67 seconds cold, 51 seconds hot. Rotor inertia is 0.1 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C:	0.127	Short Circuit D-C:	0.005
Short Circuit A-C:	0.005	X/R Ratio:	1.771
Stator Slots:	36	Rotor Slots:	48

Speed Torque Current Curve (First Connection, First Speed)



Marks:

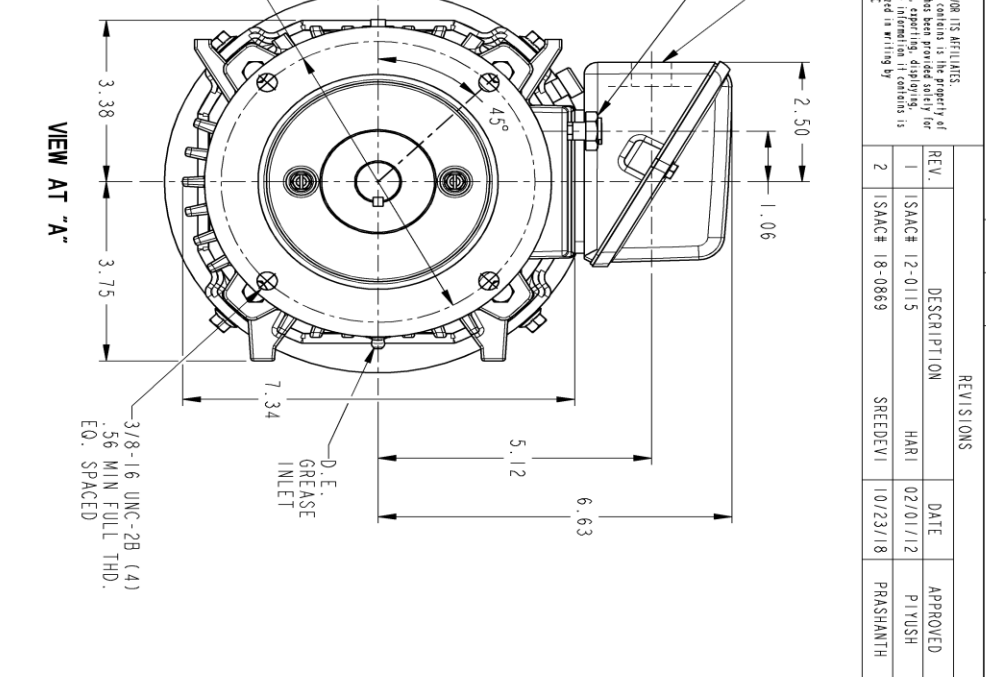


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NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE
 ON EITHER SIDE WITH REFERENCE TO CURRENT LOCATION.
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT
 BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC
 WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.

SIGNATURES	DATE
MODEL	
DETAIL	N PRASAD 05/10/05
DESIGN	ADINARAYANA 05/10/05
ENGR	
CHK	
QUALITY	
ISSUED	N PRASAD 05/10/05
SOLID MODEL	4002B5814PDP5310

REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 12-0115	02/01/12	P1YUSH
2	ISAC# 18-0869	10/23/18	PRASHANTH



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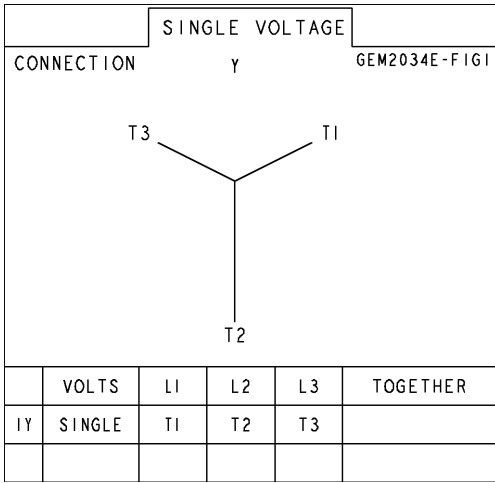
TITLE: INDUCTION MOTOR OUTLINE
 EEE-941 SPEC WITH CONDUIT BOX & DRIP COVER
 FIVE-140TC TERC "C" FACE (450° RABBET), FOOTLESS

4002B5814PDP5310 002

SCALE: 0.450 REF. No. SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5289PB1	4004D5280SG1
Bearing	235A2502AM01	235A2500AF01
Slinger/Inproseal	4002B5914AM1	4002B5914AG1

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5514BN-G01

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5718PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

