GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

March 7, 2021

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

Model Number:	**5KS145SAA200D1**
Catalog Number:	**M479**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5814PBP5311

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:	**5KS145SAA200D1**	**Estimated Weight:**	50 Lbs
Outline Drawing:	4002B5814PBP5311	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG1	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	14BD1130A	**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:	1730	**3/4 Load Efficiency:**	--
Voltage:	460	**KVA Code:**	M
Hertz:	60	**Max KVAR:**	0.8
Amps - FL:	2.1	**Power Factor:**	76.5
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:5KS145SAA200D1 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 200 C VT OR 200 C CT OR 200 C 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 30 CU IN-0.75 NPT
F1 CONDUIT BOX MOUNTING
"C" FACE AT DE ENDSHIELD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL DE ONLY
GROUND SCREW ON FRAME
SHAFT RUNOUT LIMIT .001" TIR
OIL RESISTANT SLEEVING ON LEADS

Performance Characteristics 1st Winding 1st Connection **Design: 14BD1130A**

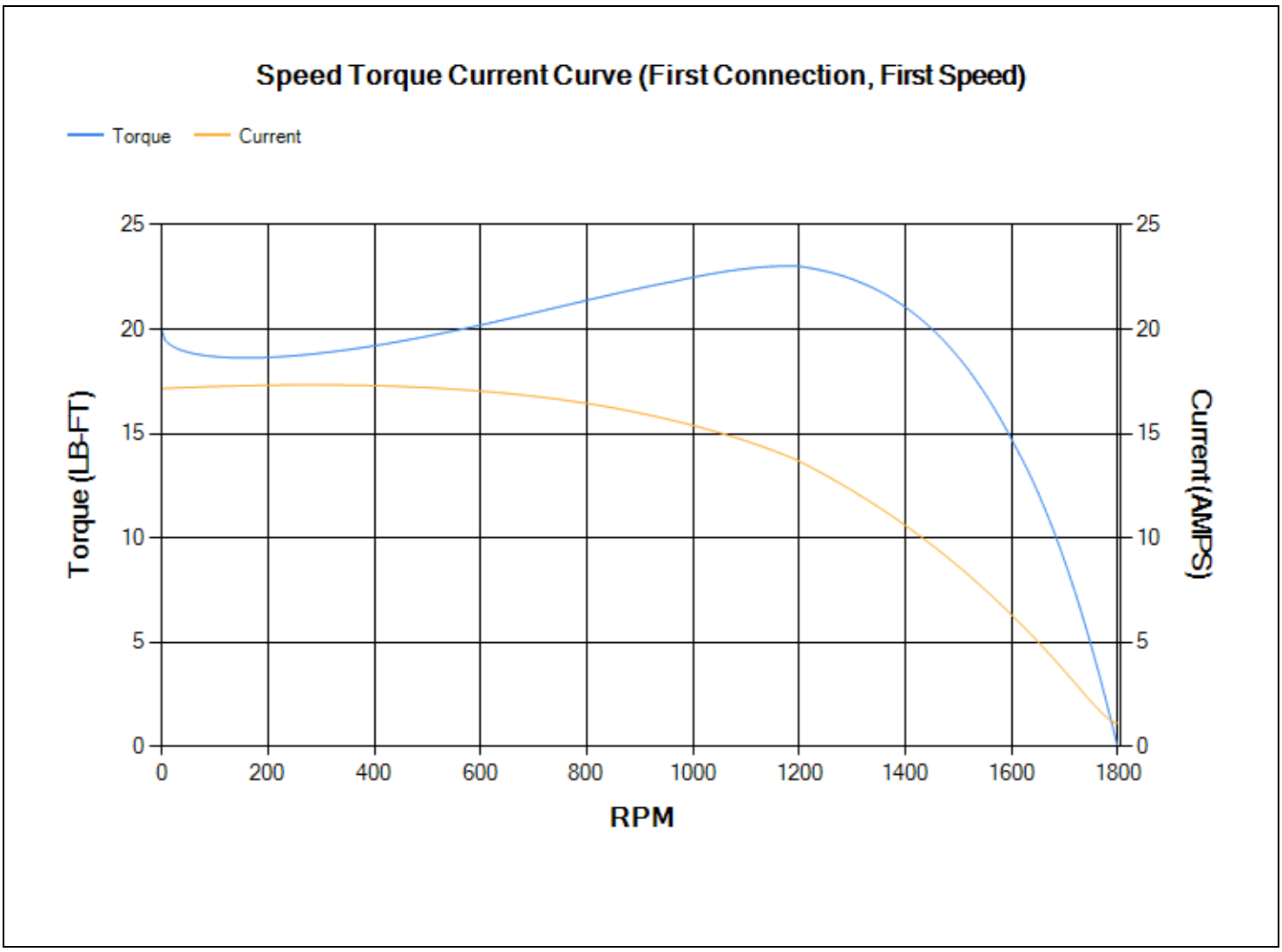
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.29	86.68	87.29	87.09	85.37	78.04	0.00
% PF	81.49	79.78	78.04	68.48	55.42	35.07	7.62
AMPS	2.5	2.33	2.05	1.77	1.48	1.28	1.11

TORQ(FL)#FT	4.51	**TORQ(LR)%FL**	441.58	**TORQ(BD)%FL**	492.3
AMPS(LR)	17.16	**PF AT START**	0.66		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 112 Lb-Ft Sq (4.72 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 36 seconds. Safe stall time at 100% voltage is 71 seconds cold, 61 seconds hot. Rotor inertia is 0.11 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C:	0.141	**Short Circuit D-C:**	0.005
Short Circuit A-C:	0.005	**X/R Ratio:**	1.925
Stator Slots:	36	**Rotor Slots:**	48



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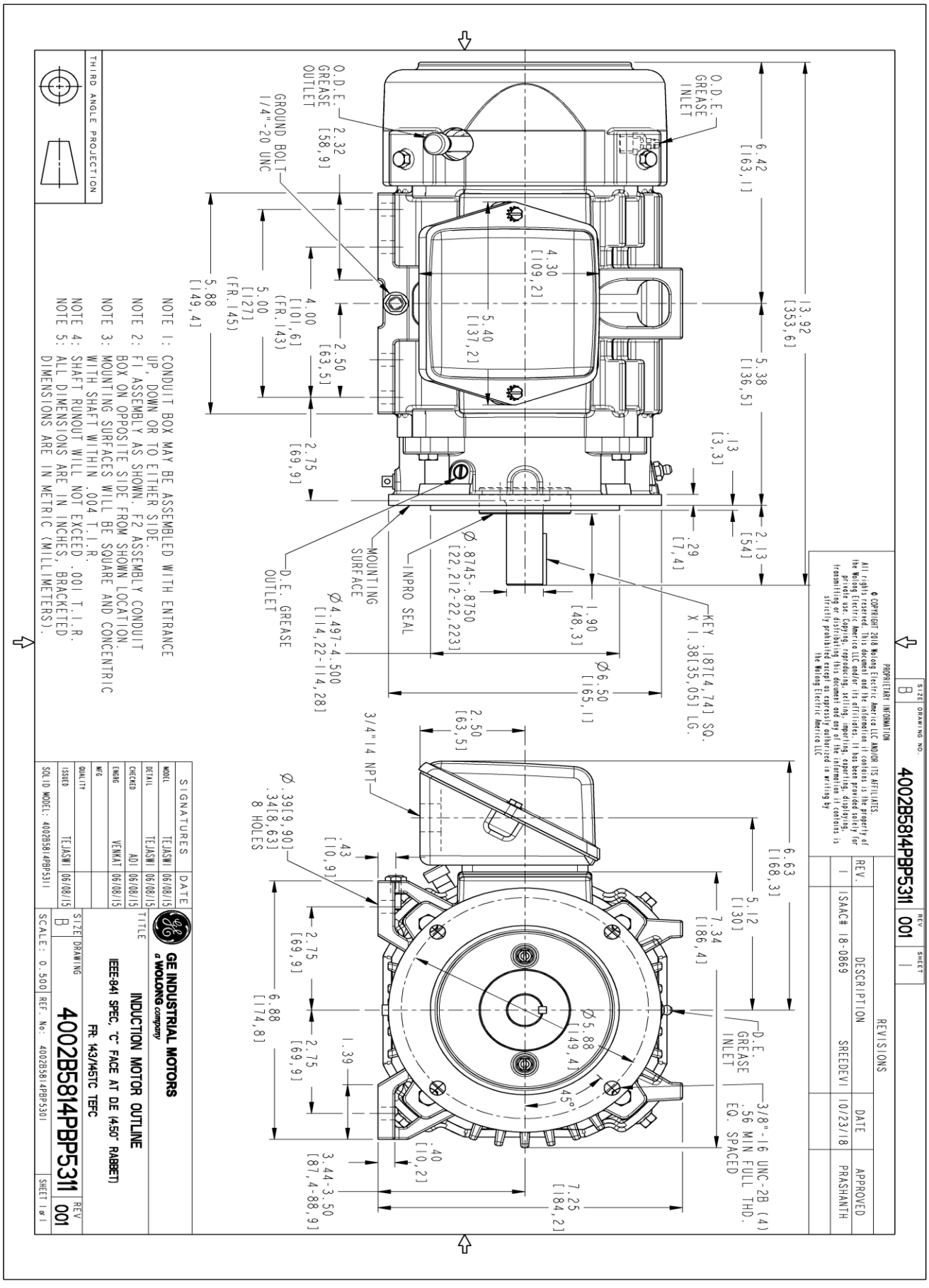


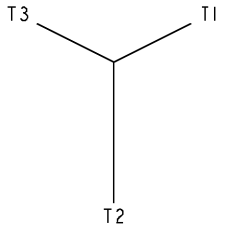
Marks:

Connection Diagram

GEM2034E-FIG1

SINGLE VOLTAGE

CONNECTION Y GEM2034E-FIGI



	VOLTS	LI	L2	L3	TOGETHER
IY	SINGLE	TI	T2	T3	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5289PB1	4004D5280SG1
Bearing	235A2502AM01	235A2500AF01
Slinger/Inproseal	4002B5914AM1	149C4399G15

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5785PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	