



**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.

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

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

**MODEL NUMBER:** 5KS145SAA200D1  
**Outline Drawing:** 4002B5814PBP5311  
**Connection Diagram:** GEM2034E-FIG1  
**Instruction Book:** GEI-56128  
**Design Code:** 14BD1130A  
**Type:** KS  
**Frame:** 145TC  
**Phases:** 3  
**Poles:** 4  
**Output Power:** 1.5HP 1.1KW  
**RPM:** 1730  
**Voltage:** 460  
**Hertz:** 60  
**Amps - FL:** 2.1  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 50 Lbs  
**Time Rating:** CONT  
**Enclosure:** TEFC  
**Encl Construction:** 841  
**Ambient Max(°C):** 40  
**Alt Ambient Max(°C):** --  
**Insulation Class:** H  
**NEMA Design:** B  
**Nominal Efficiency:** 86.5 %  
**Guaranteed Efficiency:** 85.5 %  
**3/4 Load Efficiency:** --  
**KVA Code:** M  
**Max KVAR:** 0.8  
**Power Factor:** 76.5  
**Bearing - DE:** 6206ZC3  
**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:**

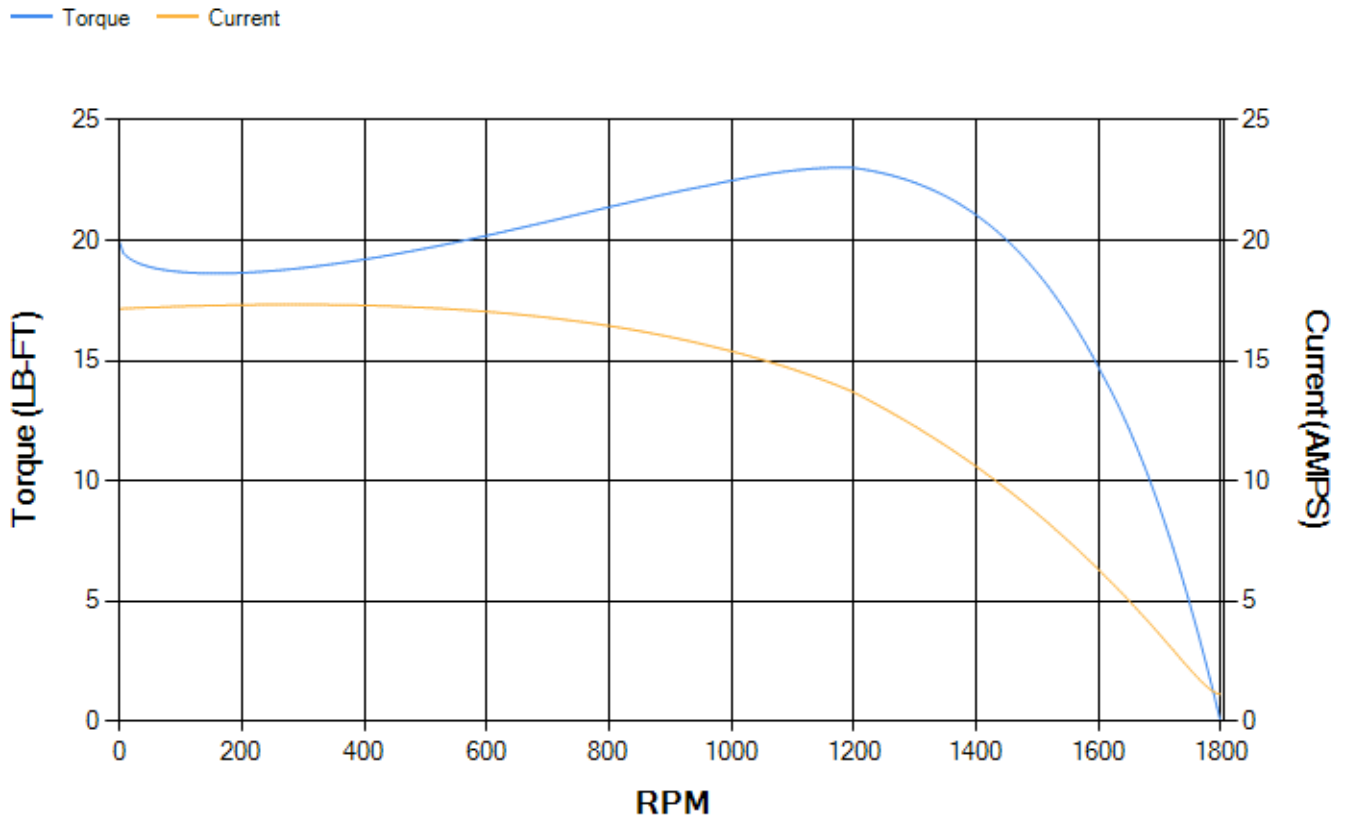
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.29	86.68	87.29	87.09	85.37	78.04	0.00
% PF	81.49	79.78	78.04	68.48	55.42	35.07	7.62
AMPS	2.5	2.33	2.05	1.77	1.48	1.28	1.11

<b>TORQ(FL)#FT</b>	4.51	<b>TORQ(LR)%FL</b>	441.58	<b>TORQ(BD)%FL</b>	492.3
<b>AMPS(LR)</b>	17.16	<b>PF AT START</b>	0.66		

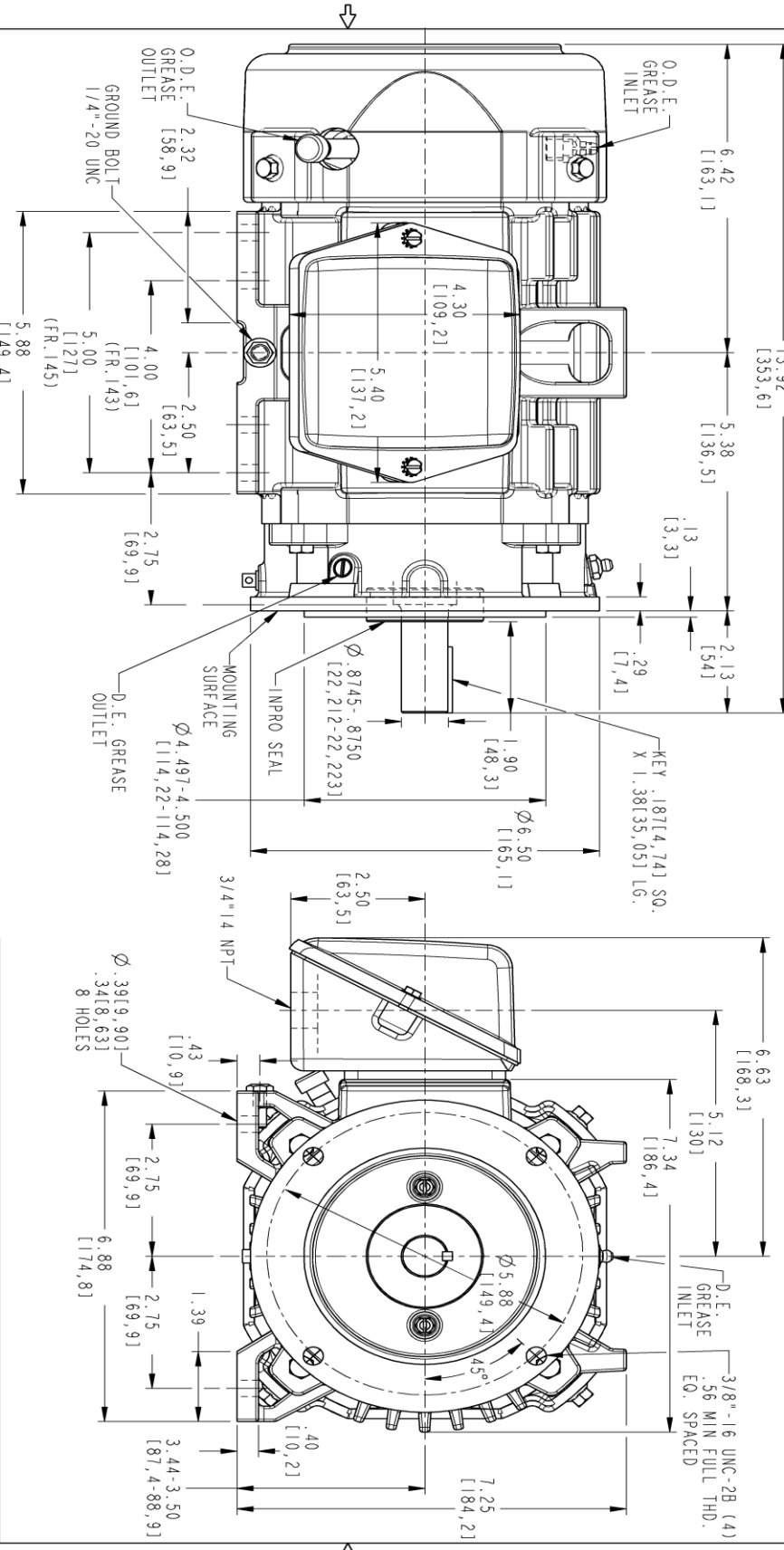
This motor is capable of two cold or one hot start with a maximum connected load inertia of 112 Lb-Ft Sq (4.72 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 36 seconds. Safe stall time at 100%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

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

**Speed Torque Current Curve (First Connection, First Speed)**



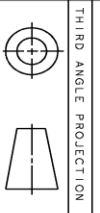
Marks:



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 18-0869	10/23/18	PRASHANTH

SIZE DRAWING NO.	B	REV	001	SHEET	1
4002B5814PBP5311 001					
REVISONS					

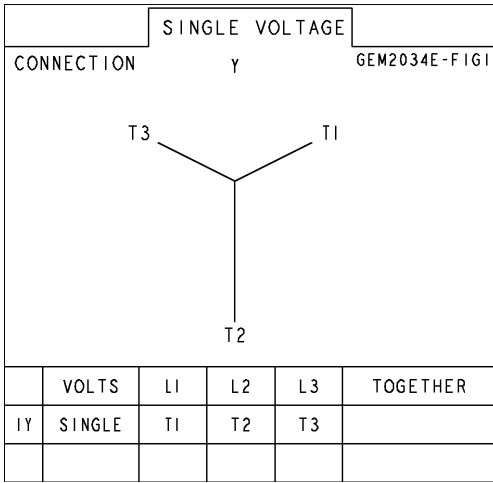


NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.  
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.  
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.  
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.  
 NOTE 5: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).

SIGNATURES	DATE	GE INDUSTRIAL MOTORS a WOLONG company
MODEL: TEJASNI	06/08/15	TITLE <b>INDUCTION MOTOR OUTLINE</b> IEEE-841 SPEC, "C" FACE AT DE 1450° RABBIT FR. 143/METC TERC
DETAIL: TEJASNI	06/08/15	
DESIGN: ADI	06/08/15	
ENGR: VENKAT	06/08/15	
QC: [blank]	[blank]	
ISSUED: TEJASNI	06/08/15	SCALE: 0.500 REF. No.: 4002B5814PBP5311
SOLID MODEL: 4002B5814PBP5311		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	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	

