



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

October 12, 2022

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

<b>Model Number:</b>	<b>5KS284BAA200</b>
<b>Catalog Number:</b>	<b>M1076</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	4002B5828GBP5201

## 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:

<b>MODEL NUMBER:</b>	<b>5KS284BAA200</b>	<b>Estimated Weight:</b>	460 Lbs
<b>Outline Drawing:</b>	4002B5828GBP5201	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG9	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	GP
<b>Design Code:</b>	28BD1162A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	284TC	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	93.6 %
<b>Output Power:</b>	25HP 18.5KW	<b>Guaranteed Efficiency:</b>	92.4 %
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	7.0
<b>Amps - FL:</b>	58.2/29.1	<b>Power Factor:</b>	86.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6310-2ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6310-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-63.2A



**Additional Information:**

4P - TC EXTN  
STANDARD FLOOR MOUNT  
C/BOX 137 CU IN-1.50 NPT  
F1 CONDUIT BOX MOUNTING  
"C" FACE AT DE ENDSHIELD AK- 10.5"  
INVERTER DUTY PER NEMA MG1 PART 31  
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT  
VAR TORQUE RANGE 0-60 HZ  
SUITABLE FOR 208V -63.2 AMPS WITH 1.15 SF



**Performance Characteristics**

1st Winding 1st Connection

**Design: 28BD1162A**

**Marks:**

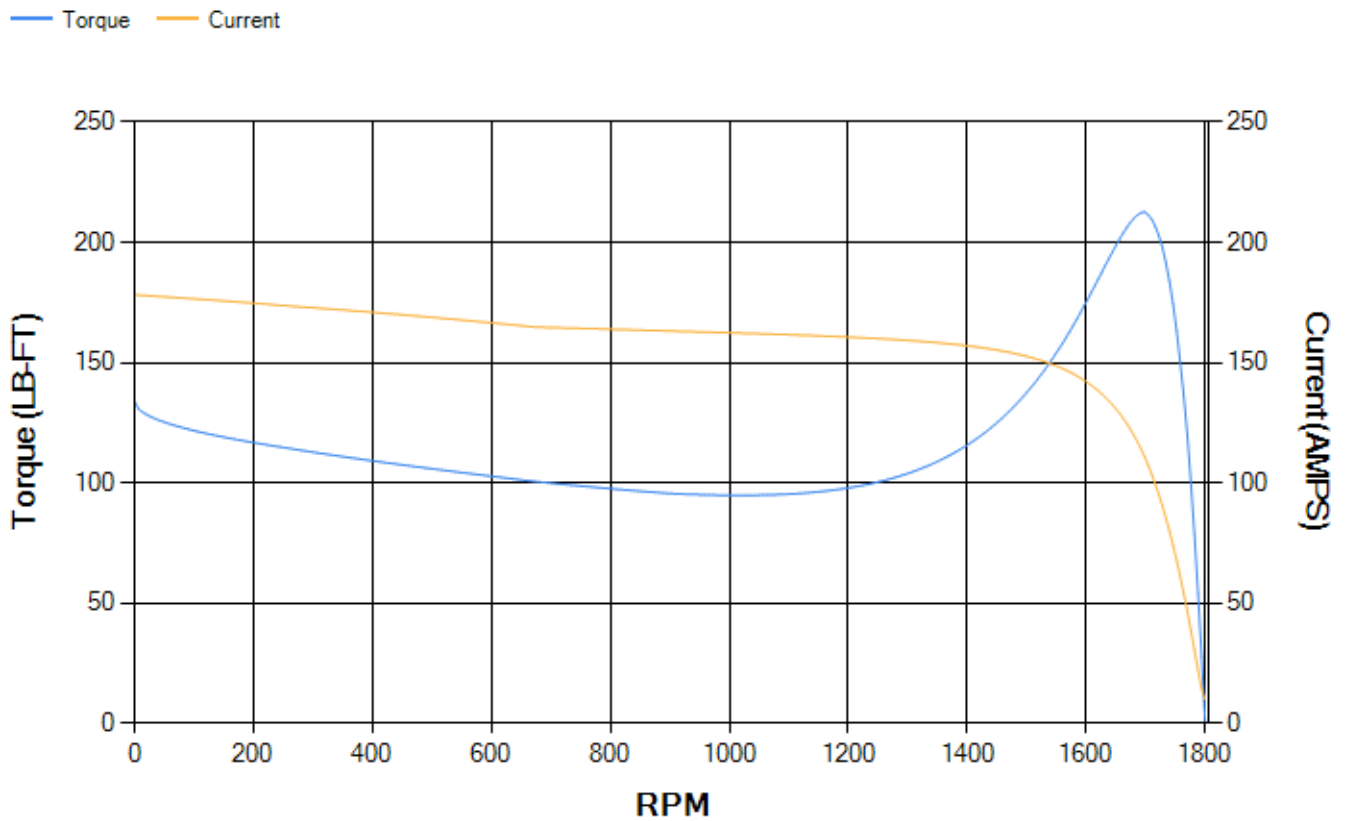
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.51	92.93	93.67	94.08	94.02	91.68	0.00
% PF	86.95	86.71	85.9	82.65	74.39	52.87	4.42
AMPS	36.36	33.39	29.06	22.57	16.73	12.07	9.81

<b>TORQ(FL)#FT</b>	73.83	<b>TORQ(LR)%FL</b>	181.27	<b>TORQ(BD)%FL</b>	286.95
<b>AMPS(LR)</b>	178.14	<b>PF AT START</b>	0.38		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 887 Lb-Ft Sq (37.34 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 56 seconds. Safe stall time at 100% voltage is 100 seconds cold, 67 seconds hot. Rotor inertia is 4.88 Lb-Ft Sq (0.21 Kg-meter Sq).

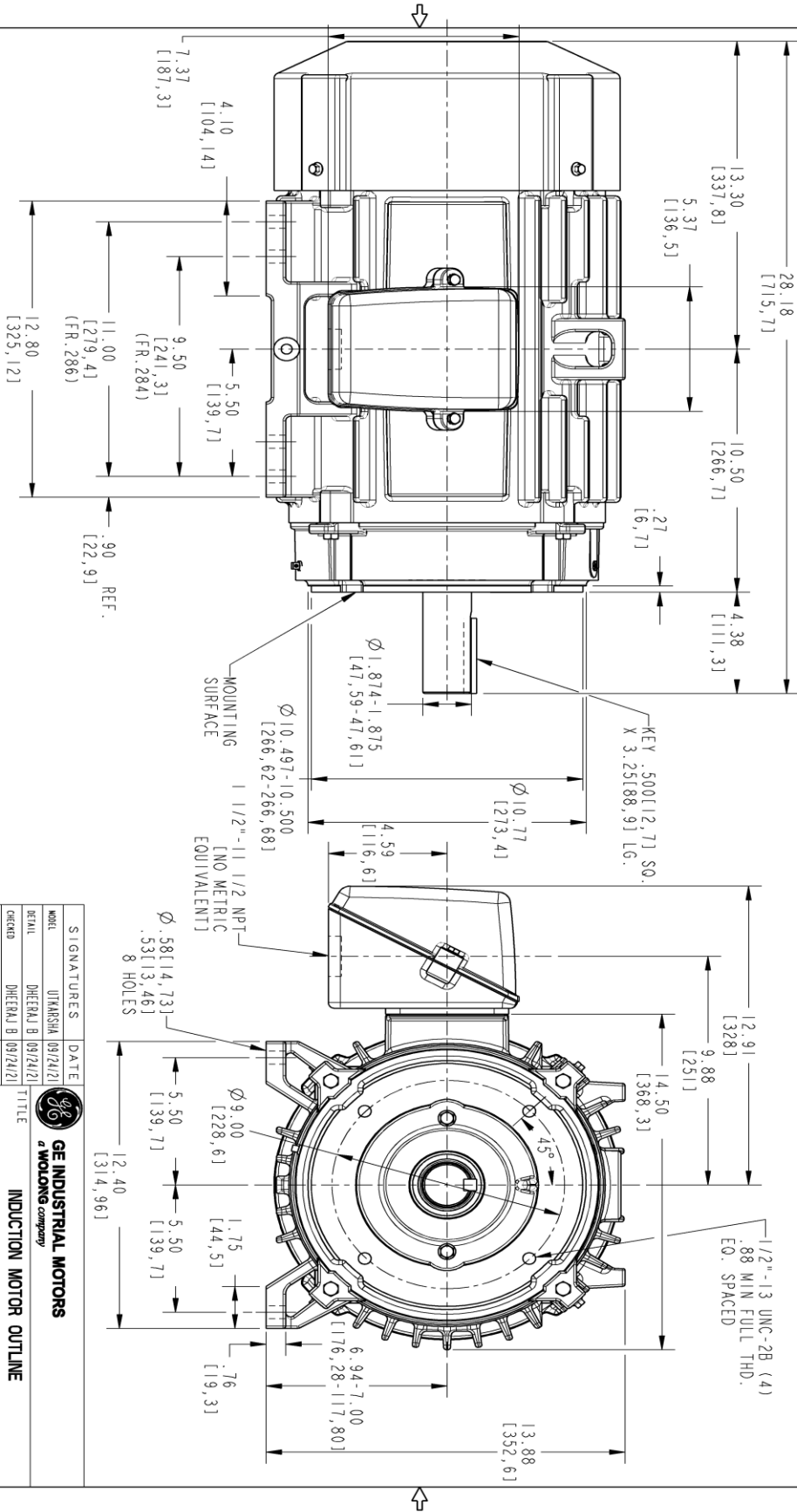
<b>Open Circuit A-C:</b>	0.626	<b>Short Circuit D-C:</b>	0.016
<b>Short Circuit A-C:</b>	0.028	<b>X/R Ratio:</b>	5.887
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	40

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



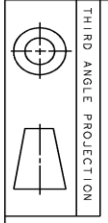
Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.  
 NOTE 2: F1 ASSEMBLY AS SHOWN.  
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.  
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .002 T.I.R.  
 NOTE 5: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



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SIZE	DRAWING NO.	REV	SHEET
B	4002B5828GBP5201	000	1
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



THIRD ANGLE PROJECTION

SIGNATURES		DATE	<p><b>GE INDUSTRIAL MOTORS</b>                  a Wolog company</p> <p><b>INDUCTION MOTOR OUTLINE</b>                  GP CONSTRUCTION</p> <p>294/2961C TFC GP ULTRA CFACE 1050° RABBE1197 CUIM CBOX</p> <p>SIZE DRAWING</p> <p><b>4002B5828GBP5201</b></p> <p>SCALE: 0.250 REF. No.: 4002B5828GBP5201</p>
MODEL	UTKASNA	09/24/21	
DETAIL	DHEEMAJ B	09/24/21	
CREATED	DHEEMAJ B	09/24/21	
CHKD	-	-	
QUALITY	UTKASNA	09/24/21	REV
ISSUED	B	-	000
SOLID MODEL:	4002B5828GBP5201	SCALE:	0.250 REF. No.:
SHEET 1 OF 1			

Marks:

**Connection Diagram**  
**GEM2034E-FIG9**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6206WF1	4004D5284SB1
Bearing	235A2608AA02	235A2608AA02
Slinger/Inproseal	149C4399G03	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	4003C5799PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728SH-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

