



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

February 17, 2023

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

Model Number:	5KGS284SAA208
Catalog Number:	M8801
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5828PAP5201

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:	5KGS284SAA208	Estimated Weight:	460 Lbs
Outline Drawing:	4002B5828PAP5201	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	28BD1179A	Ambient Max(°C):	40
Type:	KGS	Alt Ambient Max(°C):	--
Frame:	284T	Insulation Class:	H
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	93.6 %
Output Power:	25HP 18.5KW	Guaranteed Efficiency:	93.0 %
RPM:	1775	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	5.8
Amps - FL:	28.4	Power Factor:	88.0
Service Factor:	1.15	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
 VAR TORQUE RANGE 0-60 HZ



Additional Information:

4P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.50 NPT
F1 CONDUIT BOX MOUNTING
OIL RESISTANT SLEEVING ON LEADS
NEMA C TORQUE LEVELS



Performance Characteristics

1st Winding 1st Connection

Design: 28BD1179A

Marks:

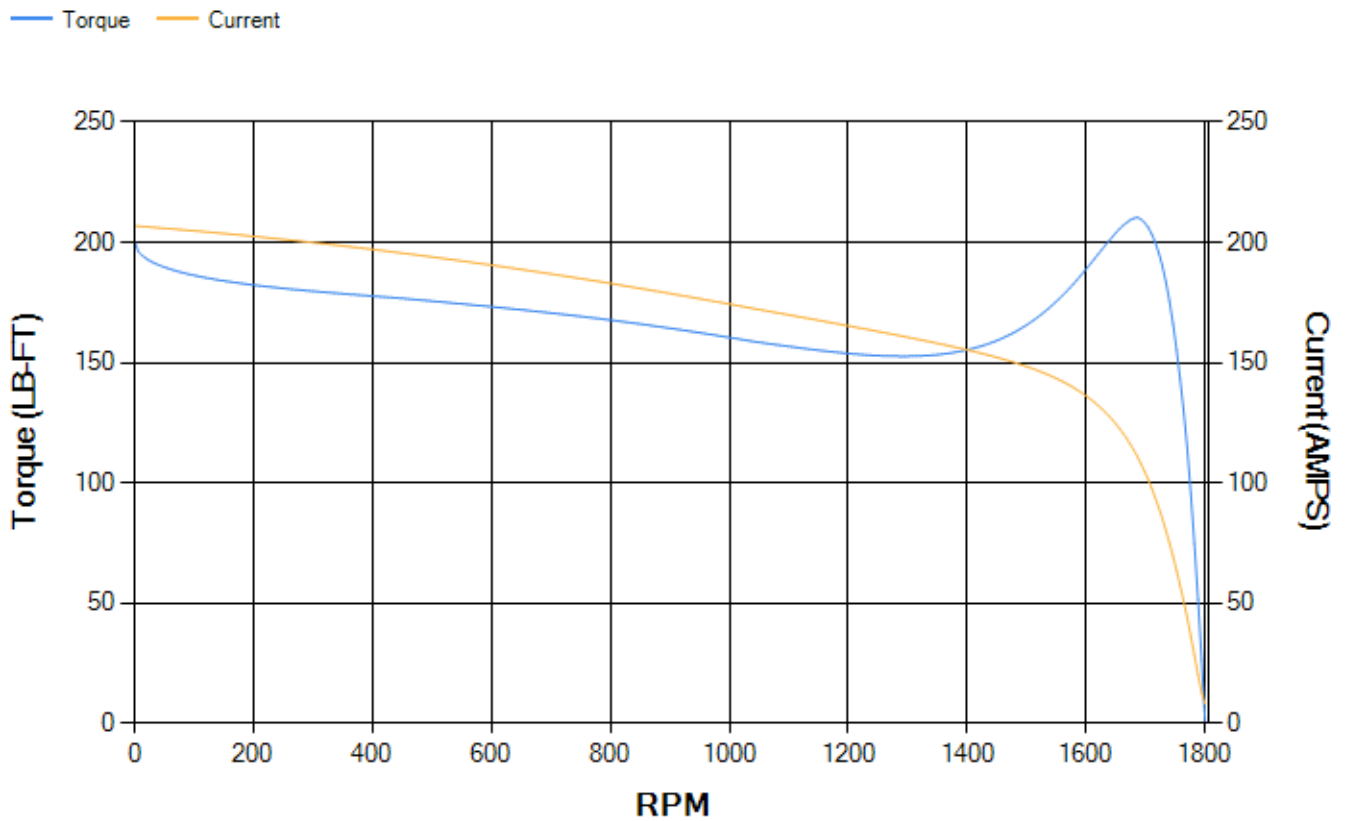
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.32	92.79	93.61	94.16	94.29	92.35	0.00
% PF	88.56	88.55	88.14	85.89	79.35	59.62	4.8
AMPS	35.77	32.75	28.34	21.7	15.64	10.62	8.07

TORQ(FL)#FT	73.89	TORQ(LR)%FL	271.11	TORQ(BD)%FL	283.54
AMPS(LR)	206.86	PF AT START	0.49		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1032 Lb-Ft Sq (43.45 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 41 seconds. Safe stall time at 100% voltage is 78 seconds cold, 53 seconds hot. Rotor inertia is 5.39 Lb-Ft Sq (0.23 Kg-meter Sq).

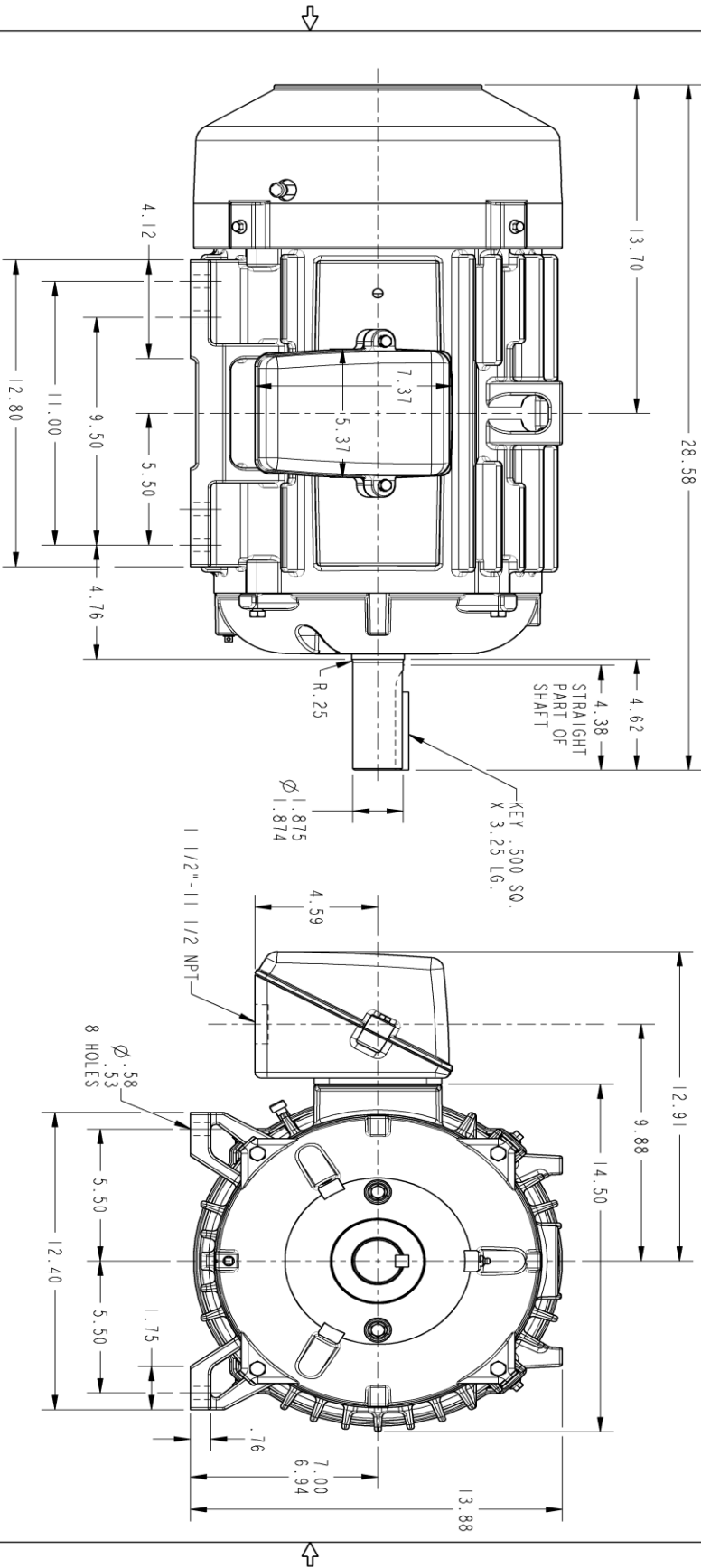
Open Circuit A-C:	0.72	Short Circuit D-C:	0.011
Short Circuit A-C:	0.021	X/R Ratio:	4.305
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

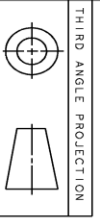
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.



PROPRIETARY INFORMATION
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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		
1	ISAAC# 18-0869	01/31/19	PRASHANTH

SIZE	DRAWING NO.	REV	SHEET
B	4002B5828PAP5201	001	1



THIRD ANGLE PROJECTION

SIGNATURES		DATE	<p>GE INDUSTRIAL MOTORS a Wolog company</p> <p>INDUCTION MOTOR OUTLINE STANDARD CONSTRUCTION</p> <p>FME: FR280T TFC XSD ULTRA</p> <p>4002B5828PAP5201</p>
MODEL	GARY WARRNER	12/13/01	
DETAIL	GARY WARRNER	02/28/02	
ENGR			
QC			
QUALITY			SCALE: 0.250 REF. No.: 4002B5828PAP201
ISSUED	GARY WARRNER	04/05/02	
SHEET DRAWING			REV
4002B5828PAP5201			001

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5284PB1	4004D5284SE1
Bearing	235A2608AA01	235A2608AA01
Slinger/Inproseal	149C4399G03	149C4399G03

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	4003C5789PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

