



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:	5KS445BAA308
Catalog Number:	M1135
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239CG600AA

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

MODEL NUMBER:	5KS445BAA308	Estimated Weight:	2020 Lbs
Outline Drawing:	239CG600AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	44BD3134A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	445T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.0 %
Output Power:	125HP 92.5KW	Guaranteed Efficiency:	--
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	42.1
Amps - FL:	150.0	Power Factor:	82.0
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31



Additional Information:

6P - T EXTN
C/BOX 700 CU IN - 3.00" NPT
F1 MOUNTING
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 0-60 HZ



Performance Characteristics

1st Winding 1st Connection

Design: 44BD3134A

Marks:

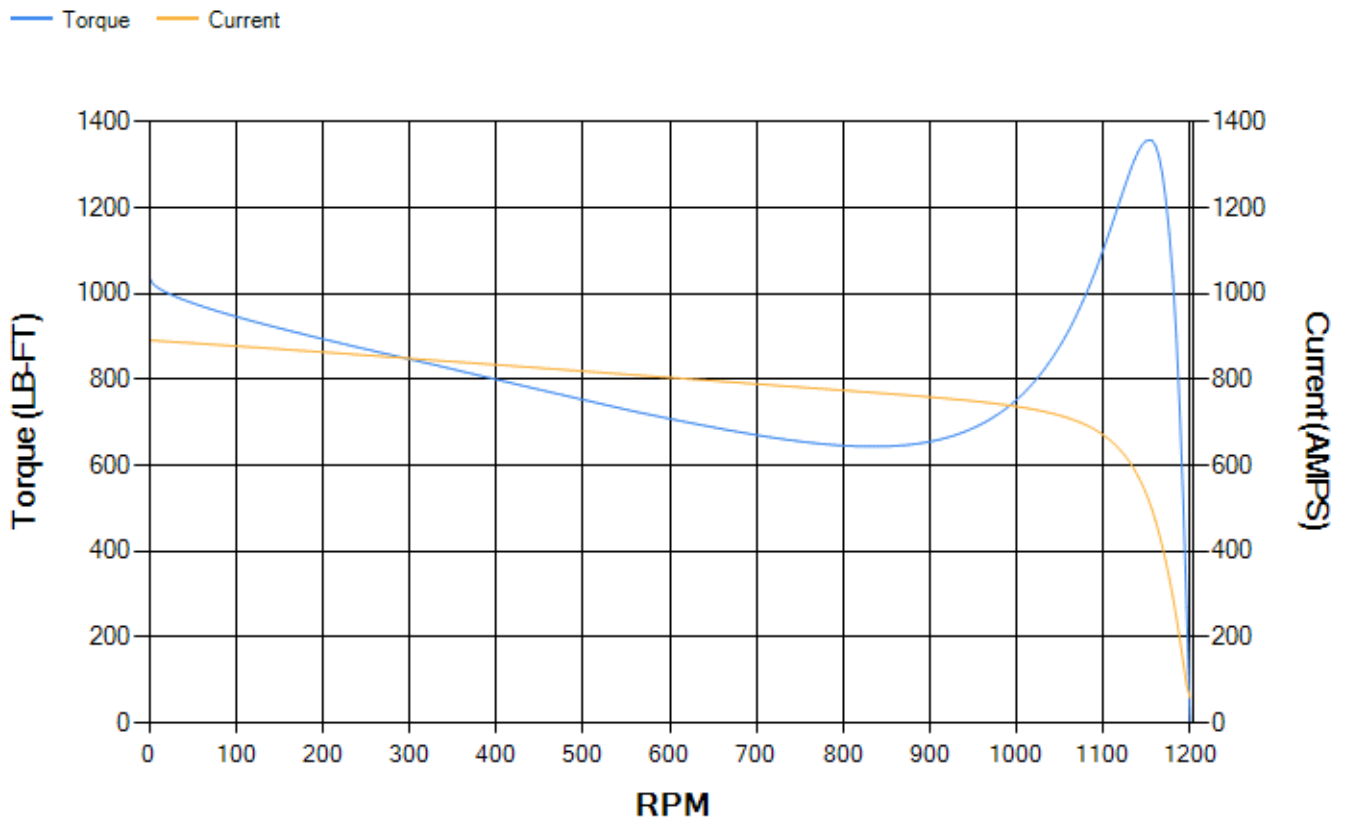
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.65	94.9	95.39	95.45	95.13	92.79	0.00
% PF	83.74	83.32	82.14	77.94	68.2	45.9	3.27
AMPS	184.5	170.16	149.31	117.95	90.16	68.68	58.73

TORQ(FL)#FT	551.1	TORQ(LR)%FL	188.18	TORQ(BD)%FL	246.09
AMPS(LR)	891.91	PF AT START	0.35		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 6040 Lb-Ft Sq (254.28 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 37 seconds. Safe stall time at 100% voltage is 77 seconds cold, 45 seconds hot. Rotor inertia is 97.44 Lb-Ft Sq (4.1 Kg-meter Sq).

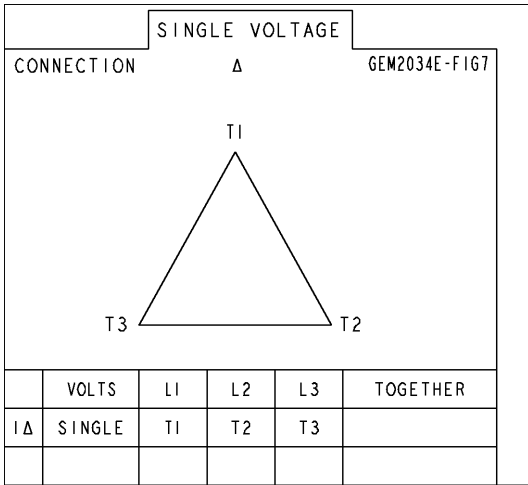
Open Circuit A-C:	0.847	Short Circuit D-C:	0.026
Short Circuit A-C:	0.051	X/R Ratio:	9.727
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4354ZA1
Bearing	235A2614AA01	235A2616AA01
Slinger/Inproseal	149C4399G07	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6851AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

