



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

October 11, 2022

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

Model Number:	5KS145BAA202
Catalog Number:	M1052
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5814GBP5202

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:	5KS145BAA202	Estimated Weight:	50 Lbs
Outline Drawing:	4002B5814GBP5202	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	14BD1130A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	145TC	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	86.5 %
Output Power:	1.5HP 1.1KW	Guaranteed Efficiency:	84.0 %
RPM:	1730	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	M
Hertz:	60	Max KVAR:	0.8
Amps - FL:	4.2/2.1	Power Factor:	76.5
Service Factor:	1.15	Bearing - DE:	6206-2ZC3
Alt Service Factor:	--	Bearing - ODE:	6205-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-4.4A



Additional Information:

4P - TC EXTN
STANDARD FLOOR MOUNT
C/BOX 30 CU IN-0.75 NPT
F1 CONDUIT BOX MOUNTING
"C" FACE AT DE ENDSHIELD AK=4 1/2"
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 -4.4 AMPS WITH 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 14BD1130A

Marks:

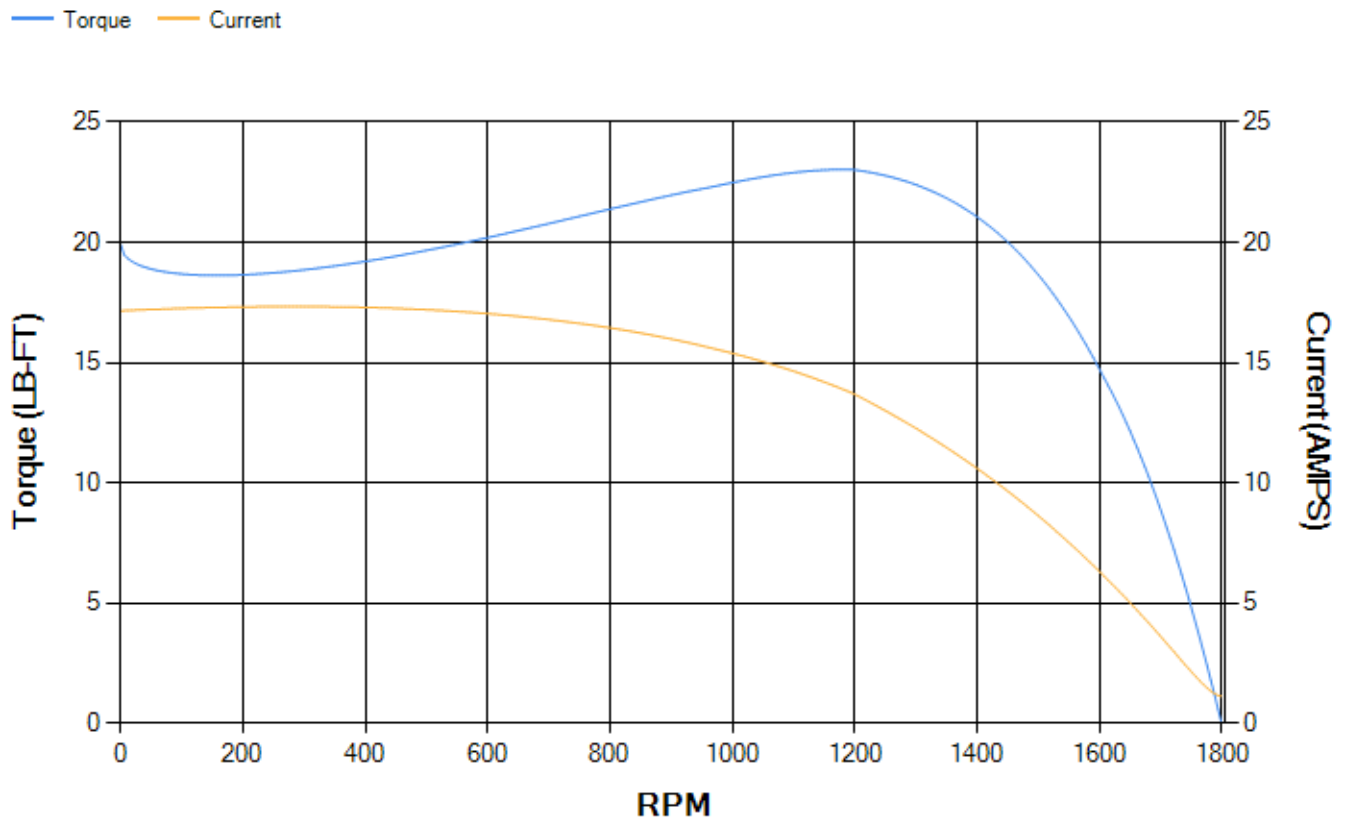
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.29	86.68	87.29	87.09	85.37	78.04	0.00
% PF	81.49	79.78	78.04	68.48	55.42	35.07	7.62
AMPS	2.5	2.33	2.05	1.77	1.48	1.28	1.11

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

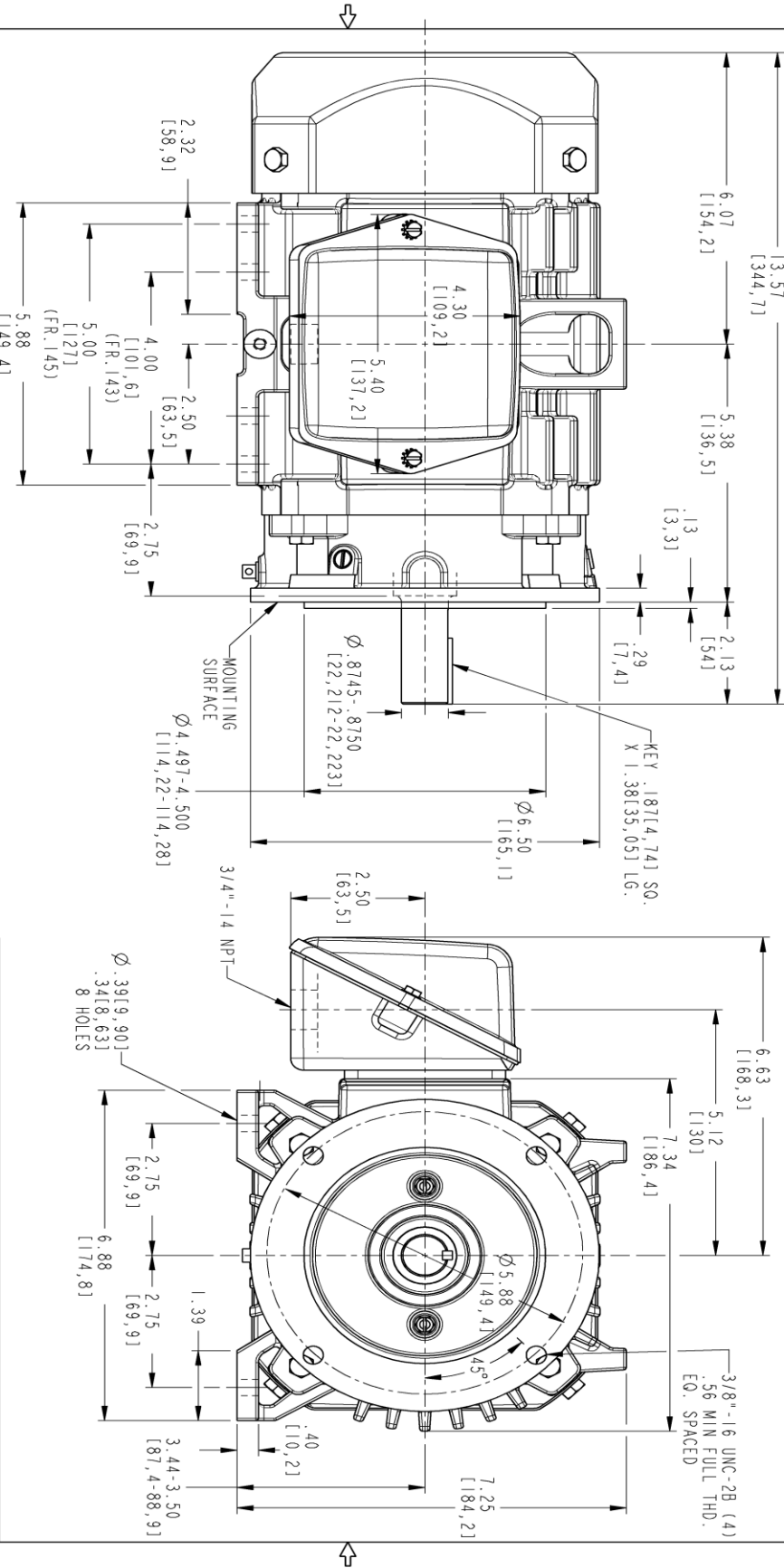
This motor is capable of two cold or one hot start with a maximum connected load inertia of 112 Lb-Ft Sq (4.72 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 36 seconds. Safe stall time at 100%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

Speed Torque Current Curve (First Connection, First Speed)



Marks:



PROPRIETARY INFORMATION
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REV.	DESCRIPTION	DATE	APPROVED

SIZE DRAWING NO. B
 4002B5814GBP5202 000



NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: FI 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).

SIGNATURES	DATE	GE INDUSTRIAL MOTORS a WOLONG company
MODEL KALIDAS 03/12/22		
DETAIL KALIDAS 03/12/22		
DESIGN KALIDAS 03/12/22		
ENG KALIDAS 03/12/22		
QC KALIDAS 03/12/22		
ISSUED KALIDAS 03/12/22		
SOLID MODEL: 4002B5814GBP5202		

SCALE: 0.500 REF. No.: 4002B5814BP55201 SHEET 1 of 1

TITLE
INDUCTION MOTOR OUTLINE
 GP CONSTRUCTION
 FR MOTC TEFC GP ULTRA C-FACE450° RABBERT30 CU IN CBOX

Marks:

Connection Diagram
GEM2034E-FIG3



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5289PA1	4004D5280SB1
Bearing	235A2602AA02	235A2600AA02
Slinger/Inproseal		

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5808PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5718PX-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

