



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:	5KS143BAA100
Catalog Number:	M1048
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:	5KS143BAA100
Outline Drawing:	4002B5814GBP5202
Connection Diagram:	GEM2034E-FIG3
Instruction Book:	GEI-56128
Design Code:	14BD0044A
Type:	KS
Frame:	143TC
Phases:	3
Poles:	2
Output Power:	1HP 0.7KW
RPM:	3475
Voltage:	230/460
Hertz:	60
Amps - FL:	3.0/1.5
Service Factor:	1.15
Alt Service Factor:	--

Estimated Weight:	43 Lbs
Time Rating:	CONT
Enclosure:	TEFC
Encl Construction:	GP
Ambient Max(°C):	40
Alt Ambient Max(°C):	--
Insulation Class:	F
NEMA Design:	--
Nominal Efficiency:	80.0 %
Guaranteed Efficiency:	77.0 %
3/4 Load Efficiency:	--
KVA Code:	N
Max KVAR:	0.4
Power Factor:	80.5
Bearing - DE:	6206-2ZC3
Bearing - ODE:	6205-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-3A



Additional Information:

2P - 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 -3 AMPS WITH 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 14BD0044A

Marks:

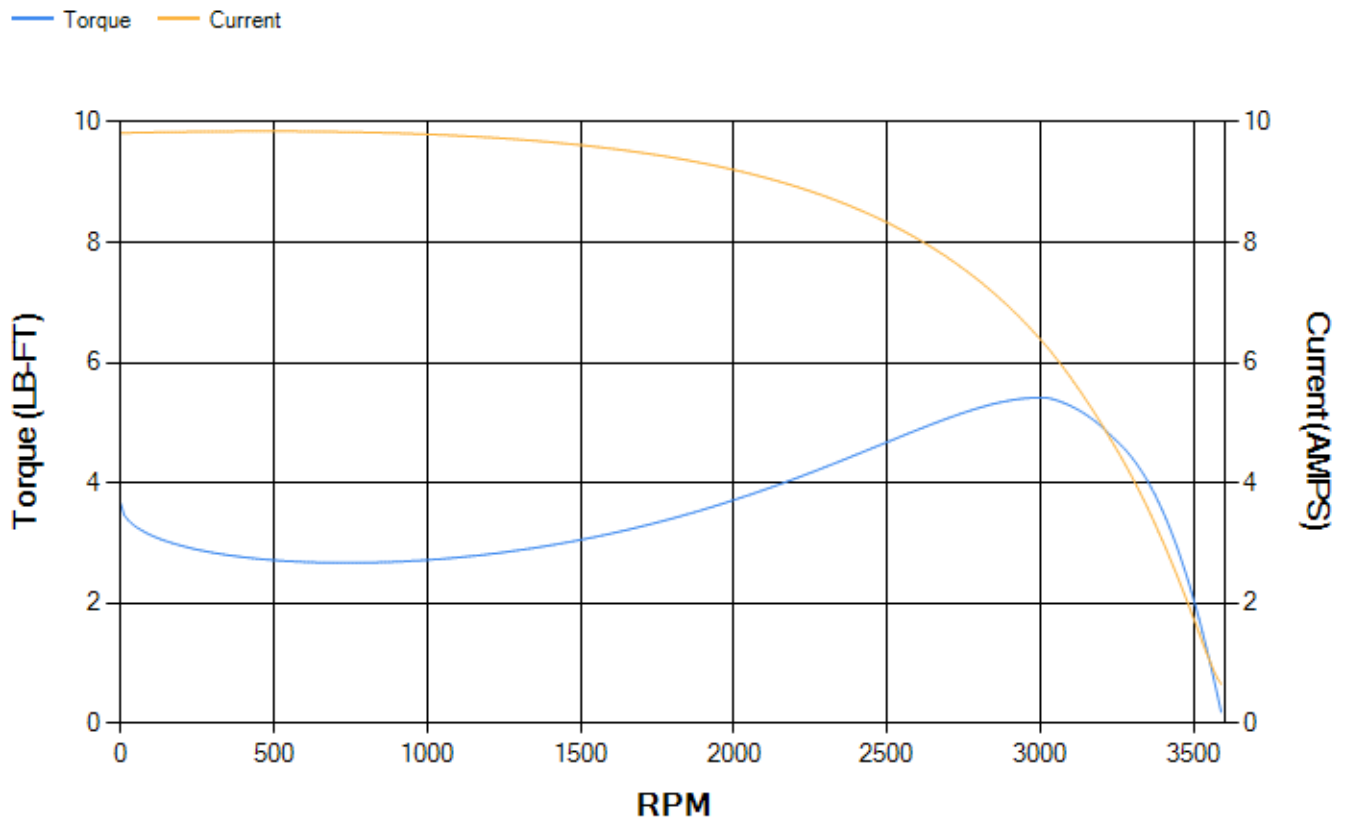
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	80.25	80.59	81	80.05	76.68	65.67	0.00
% PF	84.24	83.07	84.38	74.47	63.37	44.18	17.24
AMPS	1.73	1.61	1.35	1.18	0.96	0.81	0.61

TORQ(FL)#FT	1.49	TORQ(LR)%FL	245.08	TORQ(BD)%FL	354.31
AMPS(LR)	9.82	PF AT START	0.56		

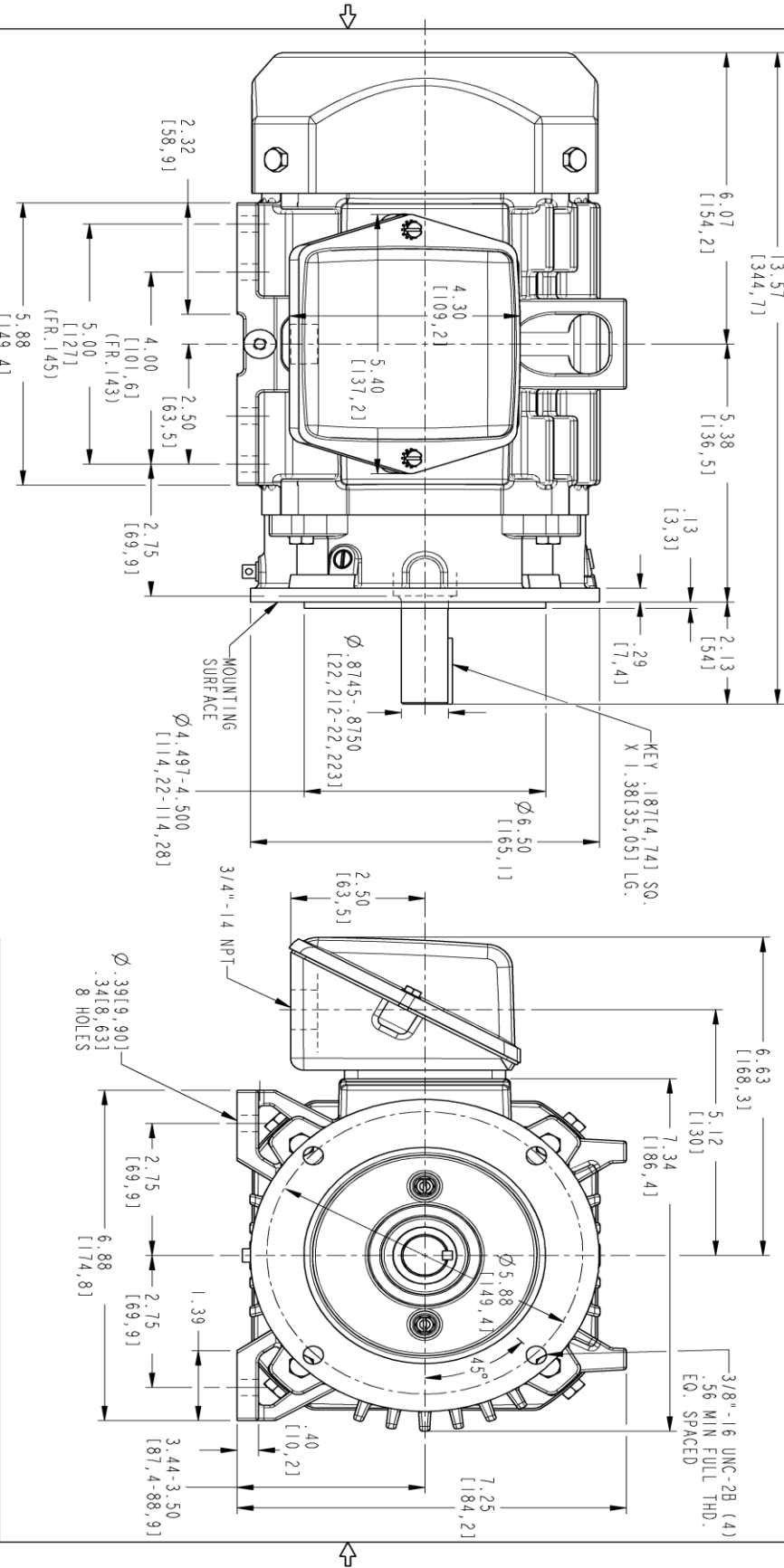
This motor is capable of two cold or one hot start with a maximum connected load inertia of 10 Lb-Ft Sq (0.42 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 39 seconds. Safe stall time at 100% voltage is 87 seconds cold, 66 seconds hot. Rotor inertia is 0.03 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C:	0.235	Short Circuit D-C:	0.005
Short Circuit A-C:	0.011	X/R Ratio:	1.835
Stator Slots:	24	Rotor Slots:	34

Speed Torque Current Curve (First Connection, First Speed)

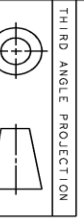


Marks:



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REV.	DESCRIPTION	DATE	APPROVED
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	REV	SHEET
KALIDAS	03/12/22	000	1
KALIDAS	03/12/22		
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KALIDAS	03/12/22		
KALIDAS	03/12/22		

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INDUCTION MOTOR OUTLINE
 GP CONSTRUCTION

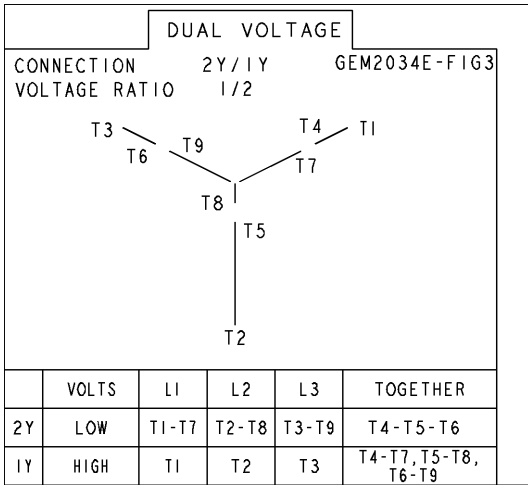
FR MOTC TFCF GP ULTRA C-FACE450 RABBERT30 CU IN CBXX

SIZE DRAWING: **4002B5814GBP5202** REV 000

SOLID MODEL: 4002B5814GBP5202 SCALE: 0.500 REF. No.: 4002B5814RBS5201 SHEET 1 of 1

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	

