



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:	5KS182BAA100
Catalog Number:	M1057
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5818GBP5202

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:	5KS182BAA100
Outline Drawing:	4002B5818GBP5202
Connection Diagram:	GEM2034E-FIG3
Instruction Book:	GEI-56128
Design Code:	18BD0104A
Type:	KS
Frame:	182TC
Phases:	3
Poles:	2
Output Power:	3HP 2.2KW
RPM:	3530
Voltage:	230/460
Hertz:	60
Amps - FL:	8.0/4.0
Service Factor:	1.15
Alt Service Factor:	--

Estimated Weight:	76 Lbs
Time Rating:	CONT
Enclosure:	TEFC
Encl Construction:	GP
Ambient Max(°C):	40
Alt Ambient Max(°C):	--
Insulation Class:	F
NEMA Design:	B
Nominal Efficiency:	86.5 %
Guaranteed Efficiency:	84.0 %
3/4 Load Efficiency:	--
KVA Code:	K
Max KVAR:	1.1
Power Factor:	81.5
Bearing - DE:	6307-2ZC3
Bearing - ODE:	6206-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-8.4A



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=8 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-8.4 AMPS WITH 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 18BD0104A

Marks:

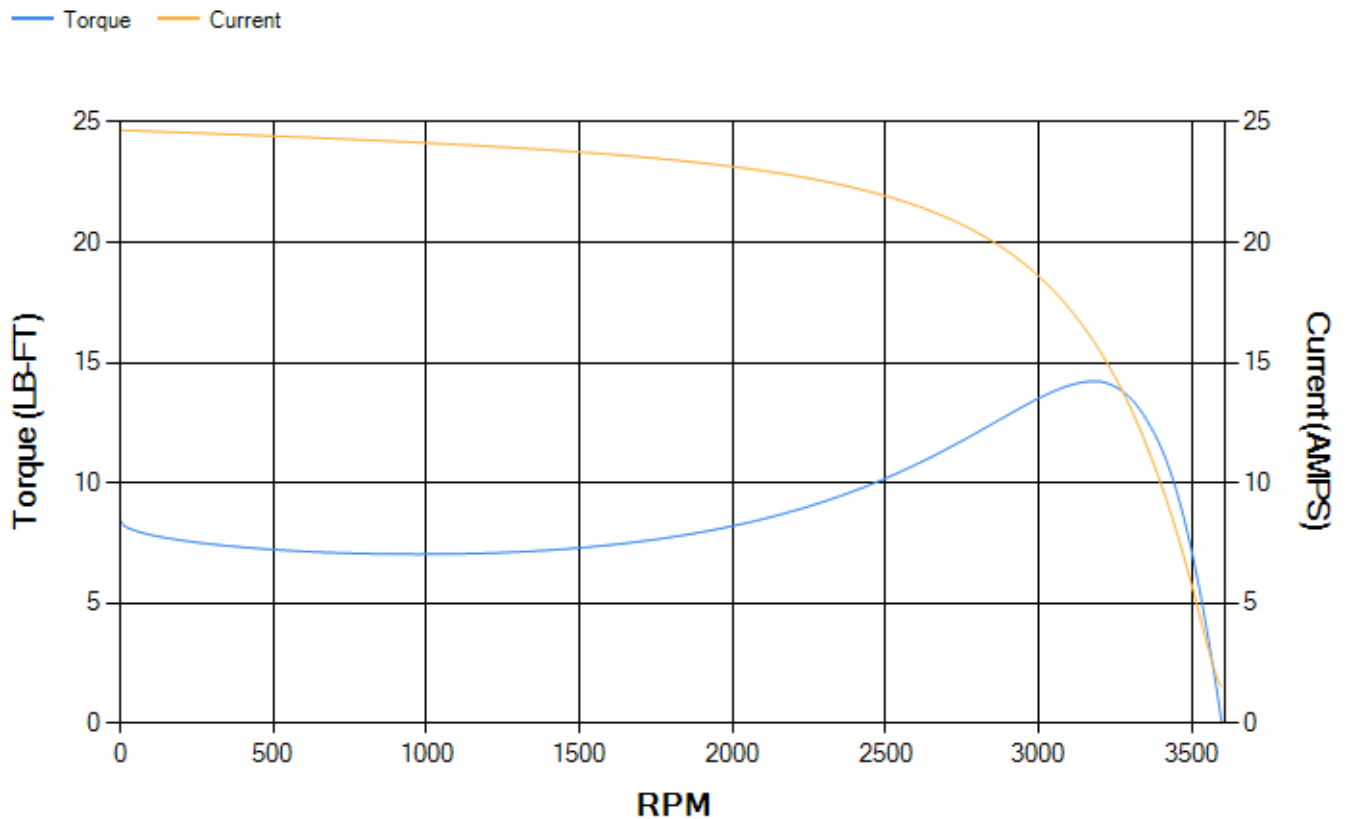
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.03	87.29	87.68	87.06	84.8	76.61	0.00
% PF	84.04	83.25	85.06	76.32	65.97	45.64	12.9
AMPS	4.8	4.44	3.76	3.17	2.51	2.01	1.51

TORQ(FL)#FT	4.46	TORQ(LR)%FL	188.79	TORQ(BD)%FL	316.45
AMPS(LR)	24.67	PF AT START	0.4		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 38 Lb-Ft Sq (1.6 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 60 seconds. Safe stall time at 100% voltage is 117 seconds cold, 97 seconds hot. Rotor inertia is 0.12 Lb-Ft Sq (0.01 Kg-meter Sq).

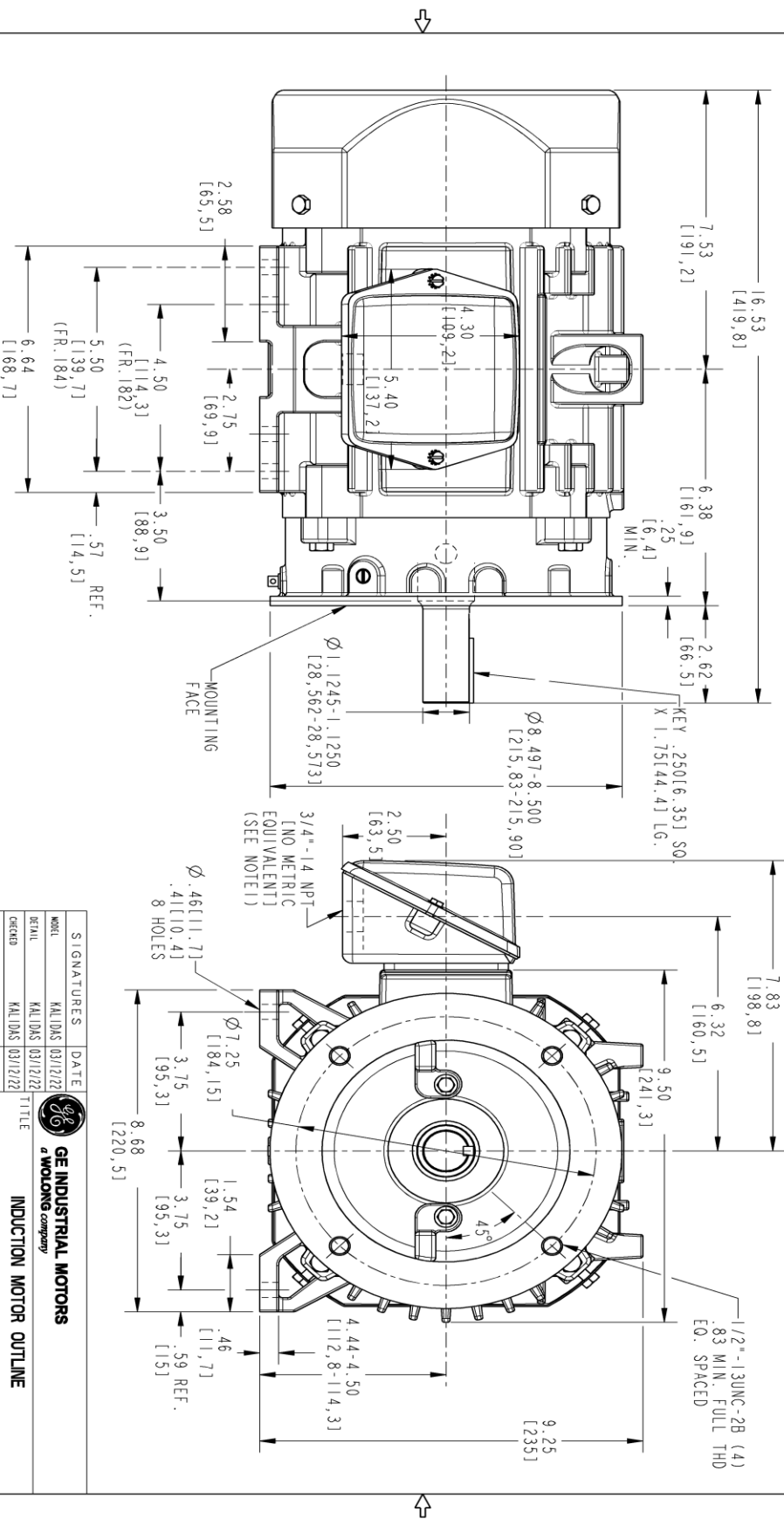
Open Circuit A-C:	0.324	Short Circuit D-C:	0.01
Short Circuit A-C:	0.018	X/R Ratio:	3.957
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



Marks:

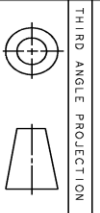
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN.
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .002 T.I.R.
 NOTE 5: ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS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



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REV.	DESCRIPTION	DATE	APPROVED

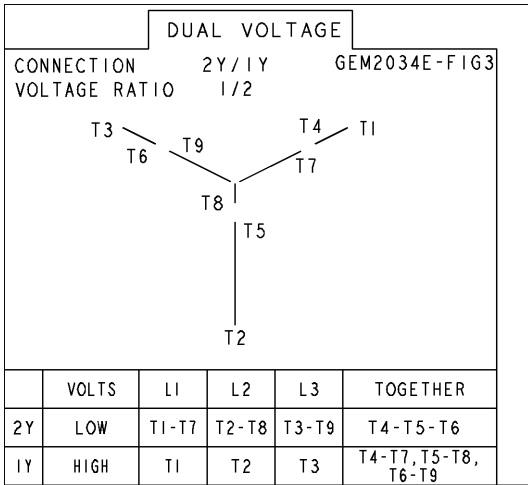
SIZE DRAWING NO.	B
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SIGNATURES	DATE	<p>GE INDUSTRIAL MOTORS a Wolog company</p> <p>INDUCTION MOTOR OUTLINE GP CONSTRUCTION</p> <p>FRBOTC TFC GP ULTRA C⁺ FACEB50⁺ RABBT, 30 CU IN</p>
MODEL	KALIDAS 03/12/22	
DETAIL	KALIDAS 03/12/22	
CREATED	KALIDAS 03/12/22	
ENGR	KALIDAS 03/12/22	
QUALITY		
ISSUED	KALIDAS 03/12/22	SIZE DRAWING
SOLID MODEL	4002B5818GBP5202	SCALE: 0.400
		REF. No.: 4002B5818BP5201
		SHEET 1 of 1

Marks:

Connection Diagram
GEM2034E-FIG3



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5286PA1	4004D5281SB1
Bearing	235A2601AA02	235A2602AA02
Slinger/Inproseal		

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5807PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

