



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

October 12, 2022

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

Model Number:	5KS286BAA100
Catalog Number:	M1077
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5828GBP5202

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:	5KS286BAA100
Outline Drawing:	4002B5828GBP5202
Connection Diagram:	GEM2034E-FIG9
Instruction Book:	GEI-56128
Design Code:	28BD0153A
Type:	KS
Frame:	286TSC
Phases:	3
Poles:	2
Output Power:	30HP 22.2KW
RPM:	3545
Voltage:	230/460
Hertz:	60
Amps - FL:	65.4/32.7
Service Factor:	1.15
Alt Service Factor:	--

Estimated Weight:	510 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:	92.4 %
Guaranteed Efficiency:	91.0 %
3/4 Load Efficiency:	--
KVA Code:	G
Max KVAR:	4.2
Power Factor:	93.0
Bearing - DE:	6310ZC3
Bearing - ODE:	6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-72.7A



Additional Information:

2P - TSC EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.50 NPT
F1 CONDUIT BOX MOUNTING
"C" FACE AT DE ENDSHIELD AK- 10.5"
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 -72.7 AMPS WITH 1.00 SF



Performance Characteristics

1st Winding 1st Connection

Design: 28BD0153A

Marks:

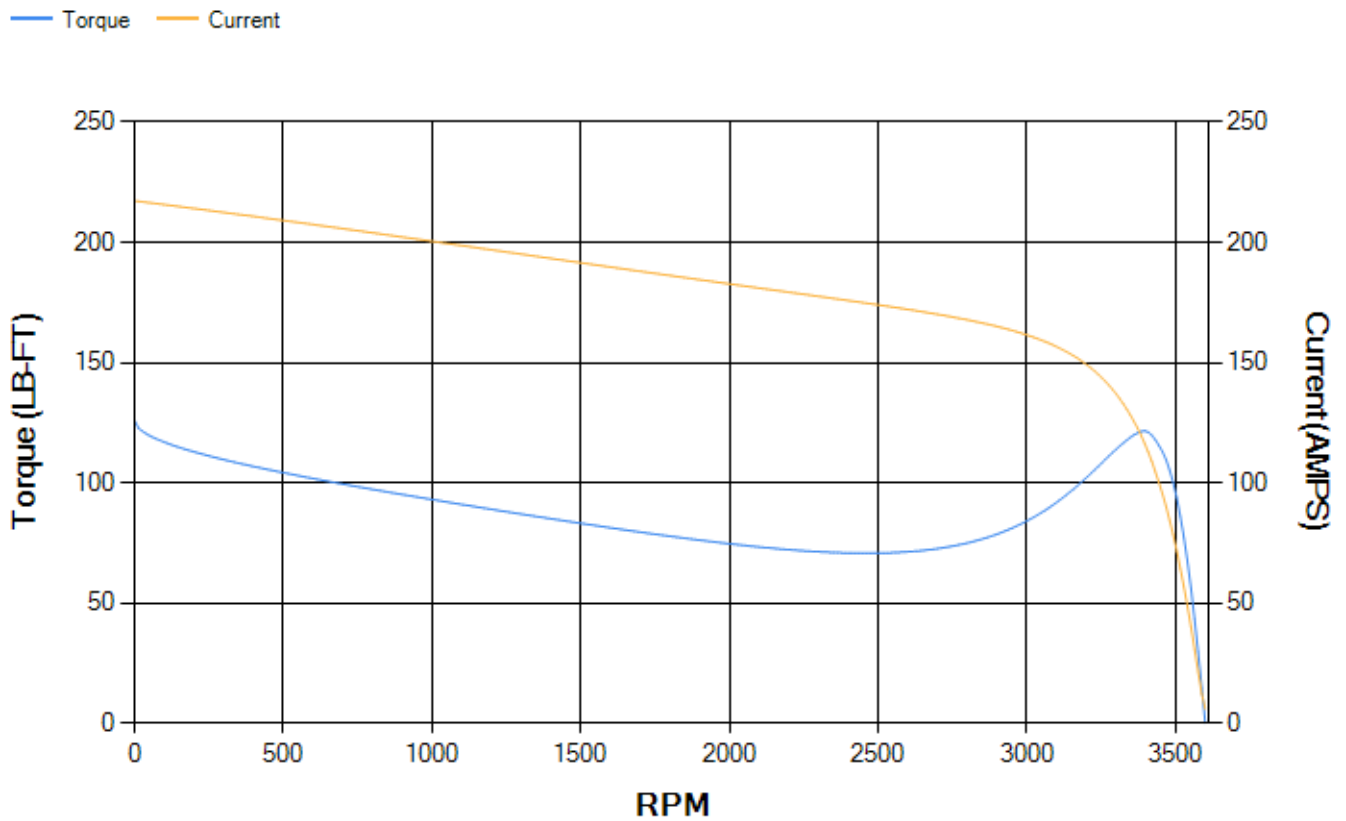
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.42	91.93	92.8	93.37	93.42	91.04	0.00
% PF	92.39	92.67	92.86	92.31	89.4	76.93	9.66
AMPS	41.56	37.9	32.58	24.43	16.81	10.02	5.91

TORQ(FL)#FT	44.4	TORQ(LR)%FL	283.3	TORQ(BD)%FL	272.73
AMPS(LR)	217.28	PF AT START	0.43		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 111 Lb-Ft Sq (4.67 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 18 seconds. Safe stall time at 100% voltage is 38 seconds cold, 21 seconds hot. Rotor inertia is 3.21 Lb-Ft Sq (0.14 Kg-meter Sq).

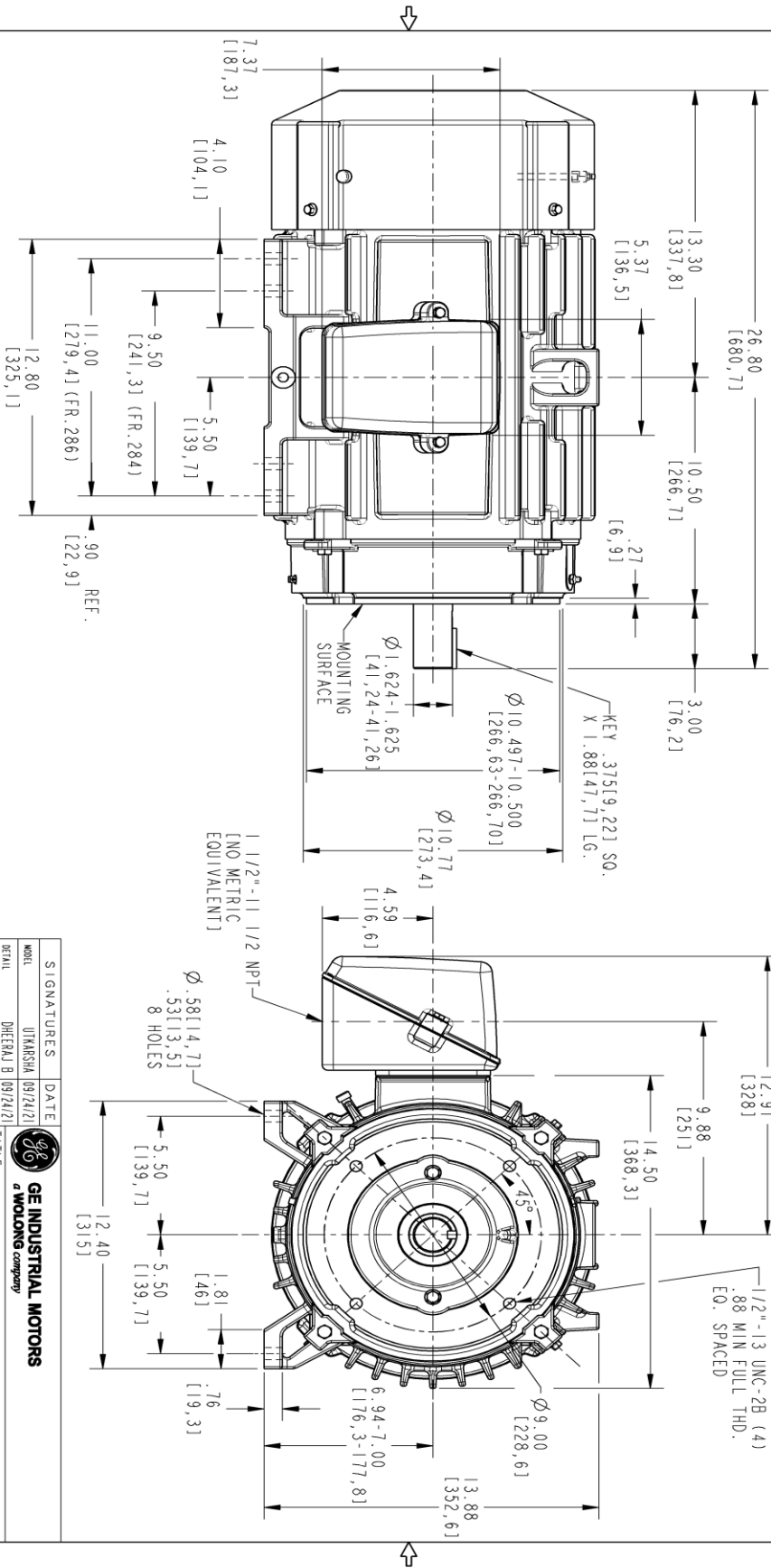
Open Circuit A-C:	1.035	Short Circuit D-C:	0.013
Short Circuit A-C:	0.025	X/R Ratio:	5.017
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

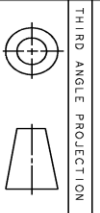
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN.
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .002 T.I.R.
 NOTE 5: ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS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



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REV.	DESCRIPTION	DATE	APPROVED

SIZE DRAWING NO.	B
REV	000
SHEET	1
REV	
DESCRIPTION	
DATE	
APPROVED	

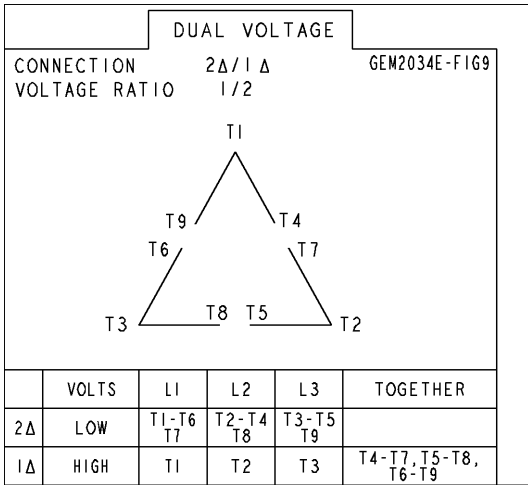


THIRD ANGLE PROJECTION

SIGNATURES	DATE	<p>GE INDUSTRIAL MOTORS a Wolog company</p>
MODEL	UTAKASHA 09/24/21	
DETAIL	DHEEMAJ B 09/24/21	
CREATED	DHEEMAJ B 09/24/21	
ENG	-	TITLE INDUCTION MOTOR OUTLINE GP CONSTRUCTION
QUALITY	UTAKASHA 09/24/21	
ISSUED	09/24/21	
SOLID MODEL	4002B58286BP5202	
SCALE: 0.225 REF. No.: 4002B58286BP5202		284/286 TSC TEFC GP ULTRA 'C' FACIOS® RABERTL 137QUIN CR0X SIZE DRAWING 4002B58286BP5202 REV 000 SHEET 1 of 1

Marks:

Connection Diagram
GEM2034E-FIG9



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6206WF1	4004D5284SB1
Bearing	235A2608AA01	235A2608AA01
Slinger/Inproseal	149C4399G03	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G02
Fan Cover	4003C5799PB1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728SH-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

