



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:	5KS284BAA100
Catalog Number:	M1075
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:	5KS284BAA100	Estimated Weight:	460 Lbs
Outline Drawing:	4002B5828GBP5202	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	28BD0159A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	284TSC	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	91.7 %
Output Power:	25HP 18.5KW	Guaranteed Efficiency:	90.2 %
RPM:	3550	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	4.8
Amps - FL:	56.0/28.0	Power Factor:	91.0
Service Factor:	1.15	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-61.7A



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 -61.7 AMPS WITH 1.00 SF



Performance Characteristics

1st Winding 1st Connection

Design: 28BD0159A

Marks:

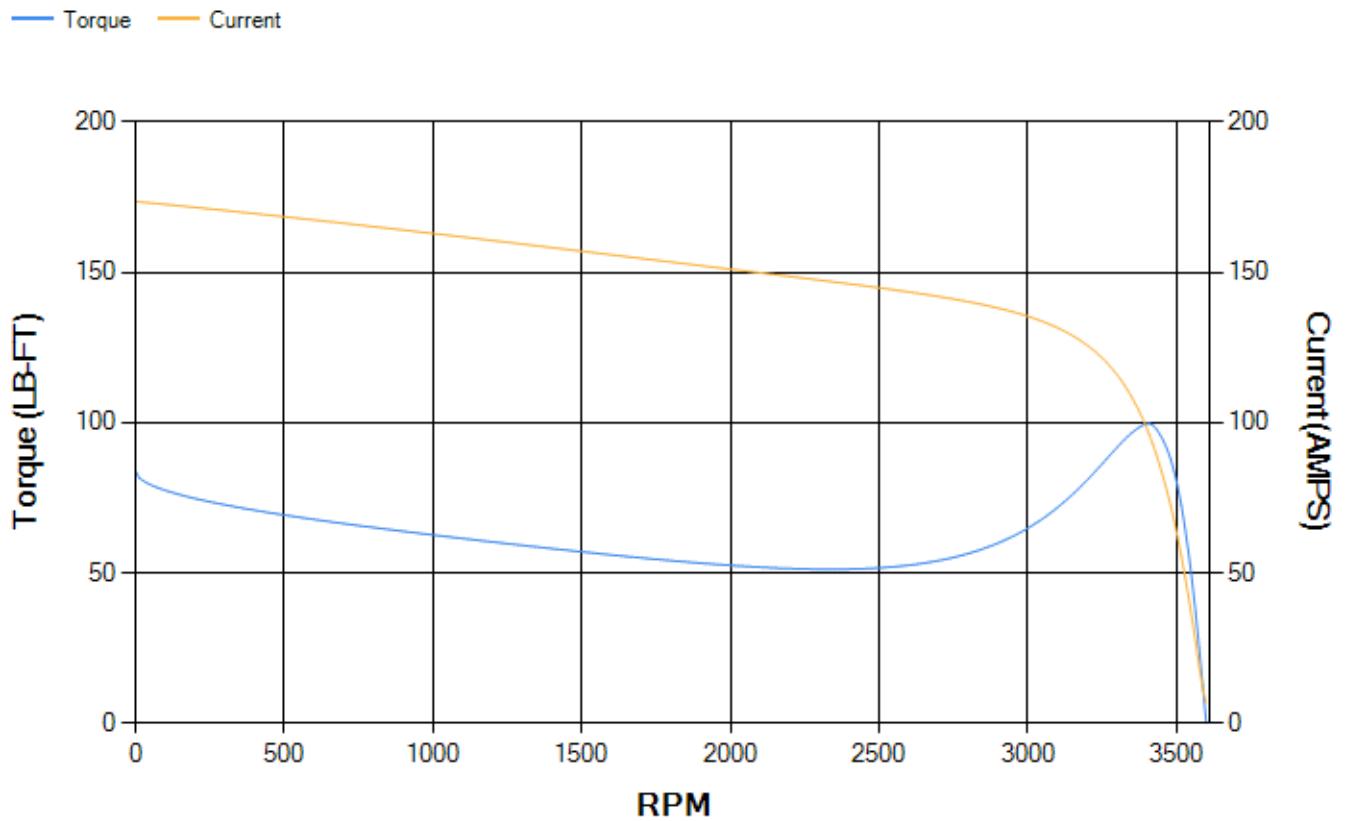
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.58	91.11	92	92.54	92.43	89.45	0.00
% PF	90.85	91	90.9	89.53	84.78	68.17	8.68
AMPS	35.54	32.46	27.98	21.18	14.93	9.59	6.66

TORQ(FL)#FT	36.99	TORQ(LR)%FL	226.64	TORQ(BD)%FL	268.62
AMPS(LR)	173.61	PF AT START	0.39		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 79 Lb-Ft Sq (3.33 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 40 seconds cold, 22 seconds hot. Rotor inertia is 2.11 Lb-Ft Sq (0.09 Kg-meter Sq).

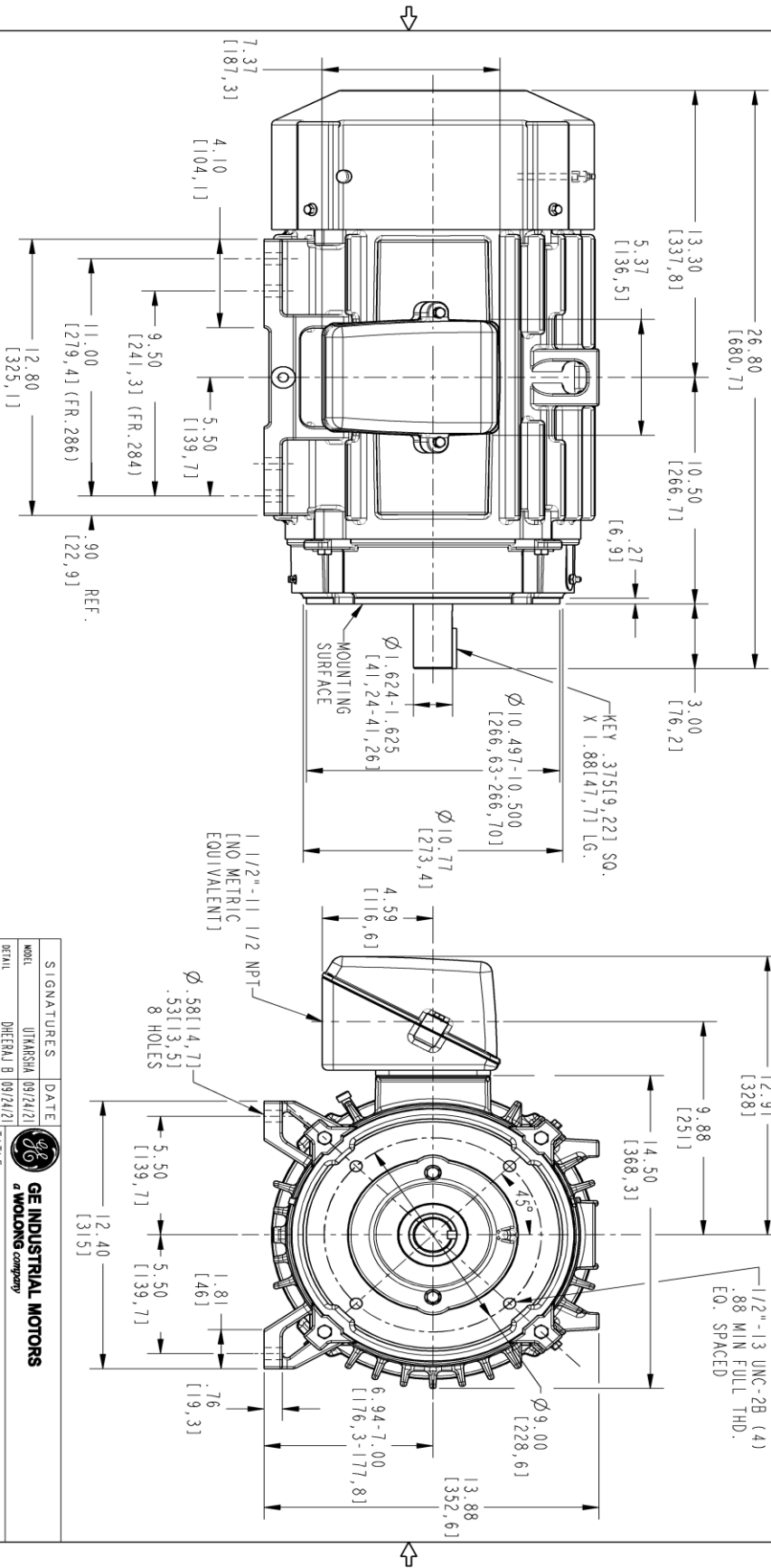
Open Circuit A-C:	0.793	Short Circuit D-C:	0.013
Short Circuit A-C:	0.027	X/R Ratio:	4.793
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

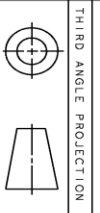
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN.
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .002 T.I.R.
 NOTE 5: ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS 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	-	<p>INDUCTION MOTOR OUTLINE GP CONSTRUCTION</p> <p>284/286 TSC TEFC GP ULTRA 'C' FACIOS® RABEELI 137QUIN CB0X</p>
QUALITY	UTAKASHA [09/24/21]	
ISSUED	B	
SOLID MODEL	4002B5828GBP5202	
SCALE	SCALE: 0.225	REF. No.: 4002B5828GBP5202
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	

