GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

December 2, 2020

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

Model Number:	**5KS213SAE5035A**
Catalog Number:	**V4022**
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5821PMP5323

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	3027JE-1C
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	**5KS213SAE5035A**	**Estimated Weight:**	200 Lbs
Outline Drawing:	4002B5821PMP5323	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG3	**Enclosure:**	TEFC
Instruction Book:	GEK-95351	**Encl Construction:**	SD
Design Code:	21BD0114A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	65
Frame:	L213TP10	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	88.5 %
Output Power:	5HP 3.7KW	**Guaranteed Efficiency:**	86.5 %
RPM:	3540	**3/4 Load Efficiency:**	--
Voltage:	230/460	**KVA Code:**	J
Hertz:	60	**Max KVAR:**	1.3
Amps - FL:	12.0/6.0	**Power Factor:**	88.5
Service Factor:	1.15	**Bearing - DE:**	7308
Alt Service Factor:	1.00	**Bearing - ODE:**	6208-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
PREMIUM EFFICIENT MOTOR
ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3
HTR LDS HE1-HE2 115V 60W
SEVERE DUTY
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:
1.0 SF VAR TORQUE RANGE 2.5-60 HZ
50HZ DATA:3 HP 190/380 V WITH FLA-9.0/4.5 A

Additional Information:

2P - TP EXTN
C/BOX 55 CU IN-1.00 NPT
HEATER LEADS EXIT WITH MOTOR LEADS
E/SHLD GROUND STUD MTD ON DE C/BOX SIDE
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 8.59 INCHES
HOLLOW SHAFT HIGH THRUST
NON REV CPLG W/BX=1.00" KW=0.25"
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8760 HOURS AT 1663 LB THRUST

Performance Characteristics 1st Winding 1st Connection **Design: 21BD0114A**

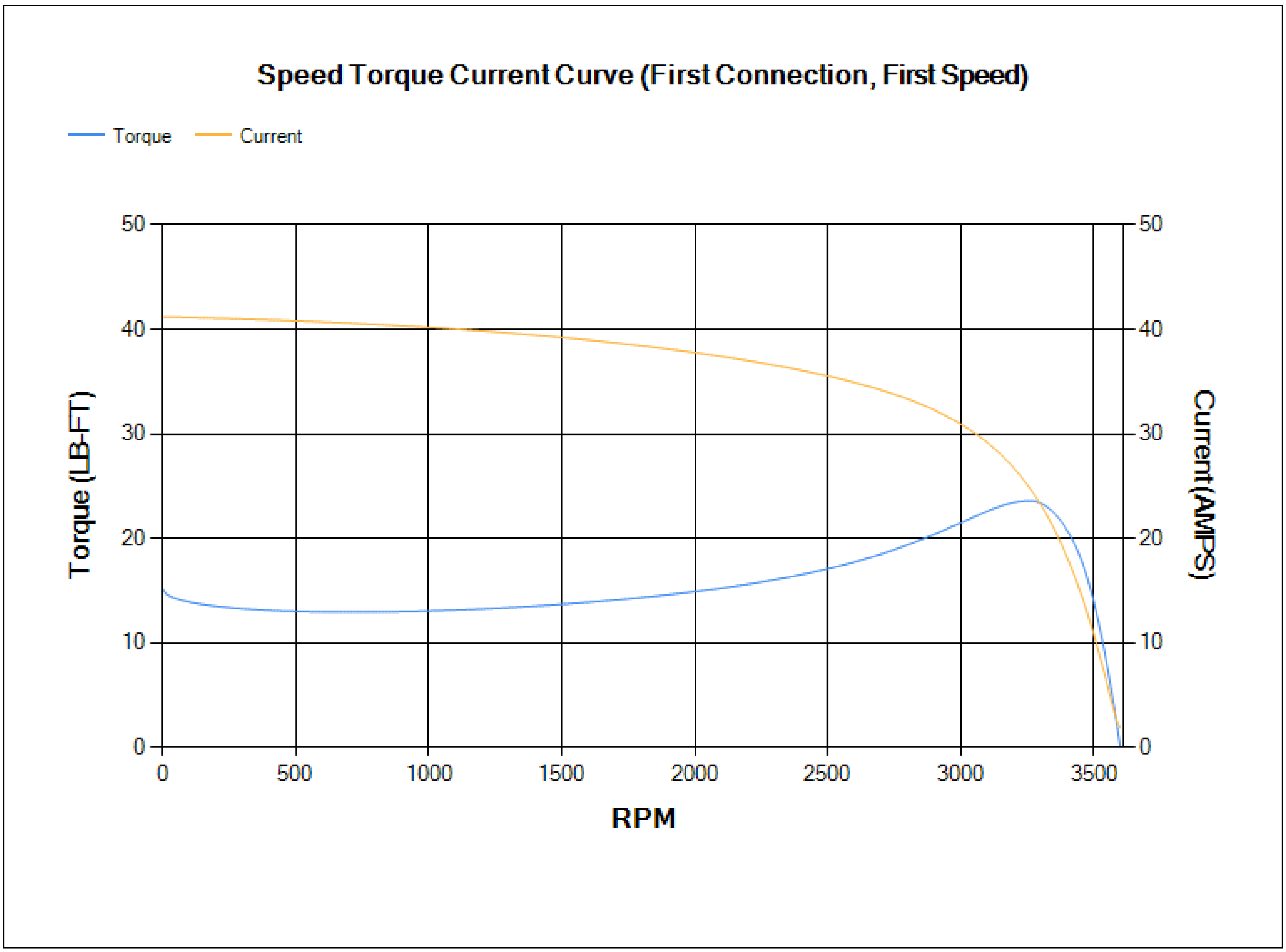
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.04	89.34	89.83	89.53	87.95	81.47	0.00
% PF	89.66	89.37	88.57	85.64	78.43	59.42	12.75
AMPS	7.33	6.74	5.87	4.58	3.39	2.42	1.86

TORQ(FL)#FT	7.41	**TORQ(LR)%FL**	204.87	**TORQ(BD)%FL**	316.5
AMPS(LR)	41.2	**PF AT START**	0.35		

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 70 seconds. Safe stall time at 100% voltage is 119 seconds cold, 101 seconds hot. Rotor inertia is 0.31 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C:	0.52	**Short Circuit D-C:**	0.011
Short Circuit A-C:	0.021	**X/R Ratio:**	4.195
Stator Slots:	36	**Rotor Slots:**	26



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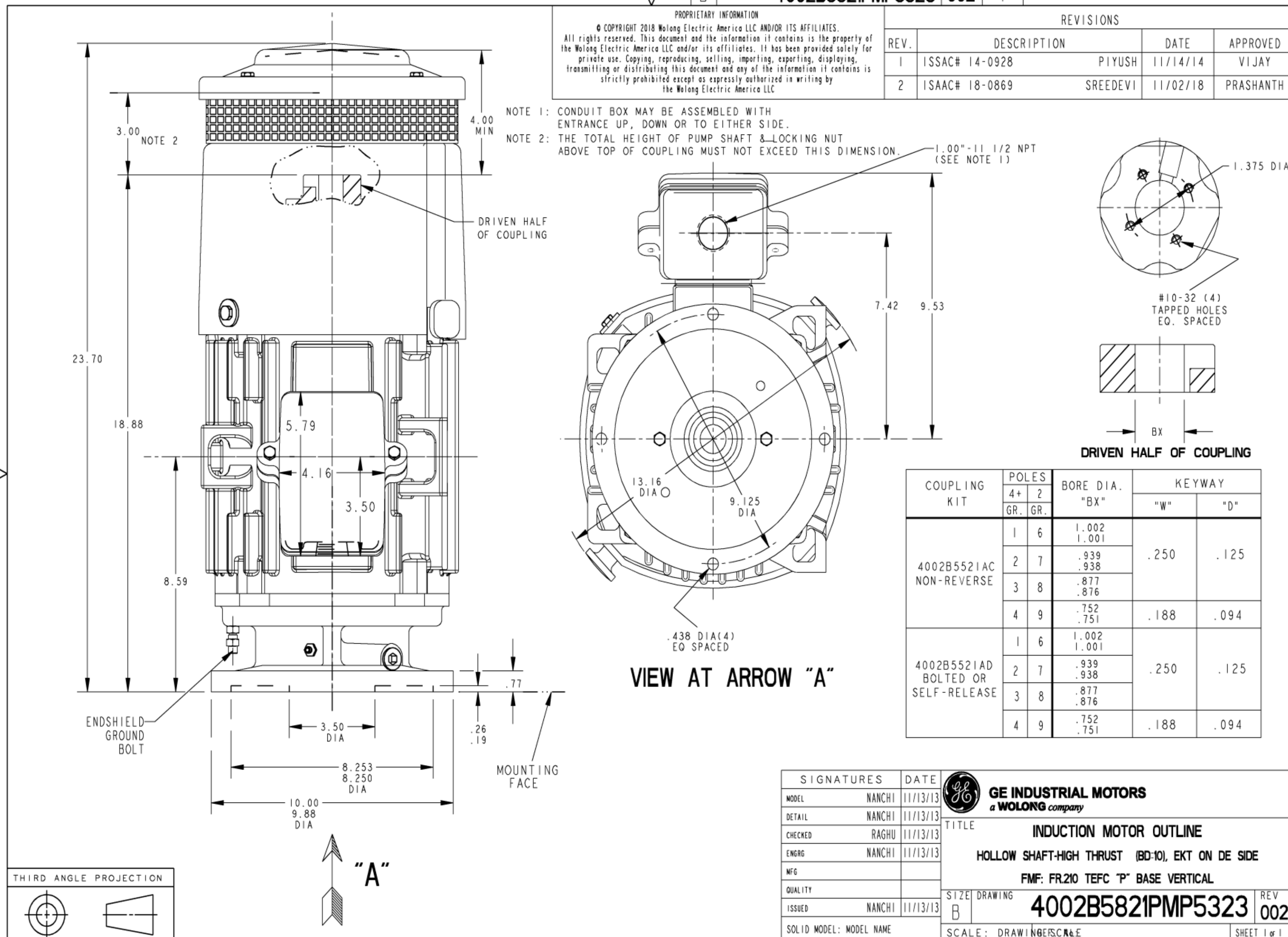

REVISIONS

REV.	DESCRIPTION		DATE	APPROVED
1	ISSAC# 14-0928	PIYUSH	11/14/14	VIJAY
2	ISAAC# 18-0869	SREEDEVI	11/02/18	PRASHANTH

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
NOTE 2: THE TOTAL HEIGHT OF PUMP SHAFT & LOCKING NUT ABOVE TOP OF COUPLING MUST NOT EXCEED THIS DIMENSION.

COUPLING KIT	POLES 4+ GR.	POLES 2 GR.	BORE DIA. "BX"	KEYWAY "W"	KEYWAY "D"
4002B5521AC NON-REVERSE	1	6	1.002 1.001	.250	.125
	2	7	.939 .938		
	3	8	.877 .876		
	4	9	.752 .751	.188	.094
4002B5521AD BOLTED OR SELF-RELEASE	1	6	1.002 1.001	.250	.125
	2	7	.939 .938		
	3	8	.877 .876		
	4	9	.752 .751	.188	.094

SIGNATURES		DATE
MODEL	NANCHI	11/13/13
DETAIL	NANCHI	11/13/13
CHECKED	RAGHU	11/13/13
ENGRG	NANCHI	11/13/13
MFG		
QUALITY		
ISSUED	NANCHI	11/13/13
SOLID MODEL: MODEL NAME		

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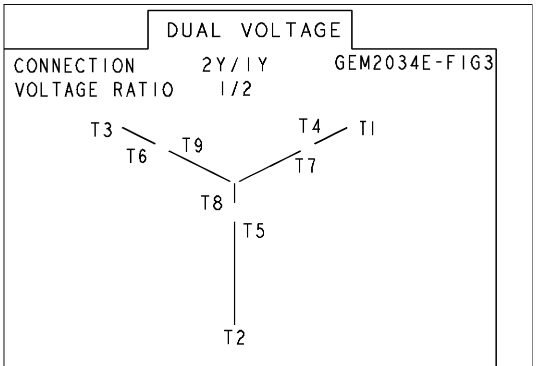
TITLE
INDUCTION MOTOR OUTLINE
HOLLOW SHAFT-HIGH THRUST (BD:10), EKT ON DE SIDE
FMF: FR.210 TEFC "P" BASE VERTICAL

SIZE B DRAWING 4002B5821PMP5323 REV 002
SCALE: DRAWING SCALE SHEET 1 of 1

Marks:

Connection Diagram
GEM2034E-FIG3



	VOLTS	L1	L2	L3	TOGETHER
2Y	LOW	T1-T7	T2-T8	T3-T9	T4-T5-T6
1Y	HIGH	T1	T2	T3	T4-T7, T5-T8, T6-T9

Heater Connection
3027JE-1C

SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6027PA1	128D6028PA1
Bearing	235A2503EJ01	235A2503AA01
Slinger/Inproseal	235A2300FL1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	4003C5521AC-G01

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	