

Product Information Packet

January 12, 2017

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

Model Number:	5KS213CAA305B
Catalog Number:	E9678
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5821RAP5201

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	3027JE-2A	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS213CAA305B	Estimated Weight:	200 Lbs
Outline Drawing:	4002B5821RAP5201	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	XP
Design Code:	21BD3003A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	213T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	89.5 %
Output Power:	3HP 2.2KW	Guaranteed Efficiency:	87.5
RPM:	1175	3/4 Load Efficiency:	89.7
Voltage:	230/460	KVA Code:	K
Hertz:	60	Max KVAR:	1.7
Amps - FL:	8.6/4.3	Power Factor:	73.0
Service Factor:	1.00	Bearing - DE:	6208ZC3
Alt Service Factor:	--	Bearing - ODE:	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXPLOSION PROOF MOTOR
TEMP CODE T3C
THERMOSTAT LEADS TB1-TB2
STAMP NP249A5571AC "CL I (C & D) CL II (F & G)"

Additional Information:

6P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 26 CU IN-1.00 NPT
F1 CONDUIT BOX MOUNTING
AUX LEADS EXIT WITH MOTOR LEADS
CL I C & D CL II F & G EXPLOSION PROOF MOTOR

Performance Characteristics

1st Winding 1st Connection

Design: 21BD3003A

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.65	89.07	89.74	89.72	88.5	82.66	0.00
% PF	76.94	75.7	73.11	66.11	53.91	33.87	5.62
AMPS	5.15	4.79	4.28	3.55	2.94	2.51	2.29

TORQ(FL)#FT 13.38
AMPS(LR) 29.87

TORQ(LR)%FL 209
PF AT START 0.46

TORQ(BD)%FL 333.07

This motor is capable of two cold or one hot start with a maximum connected load inertia of 430 Lb-Ft Sq (18.1 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 133 seconds cold, 106 seconds hot. Rotor inertia is 0.65 Lb-Ft Sq (0.03 Kg-meter Sq).

Open Circuit A-C: 0.238

Short Circuit D-C: 0.009

Short Circuit A-C: 0.015

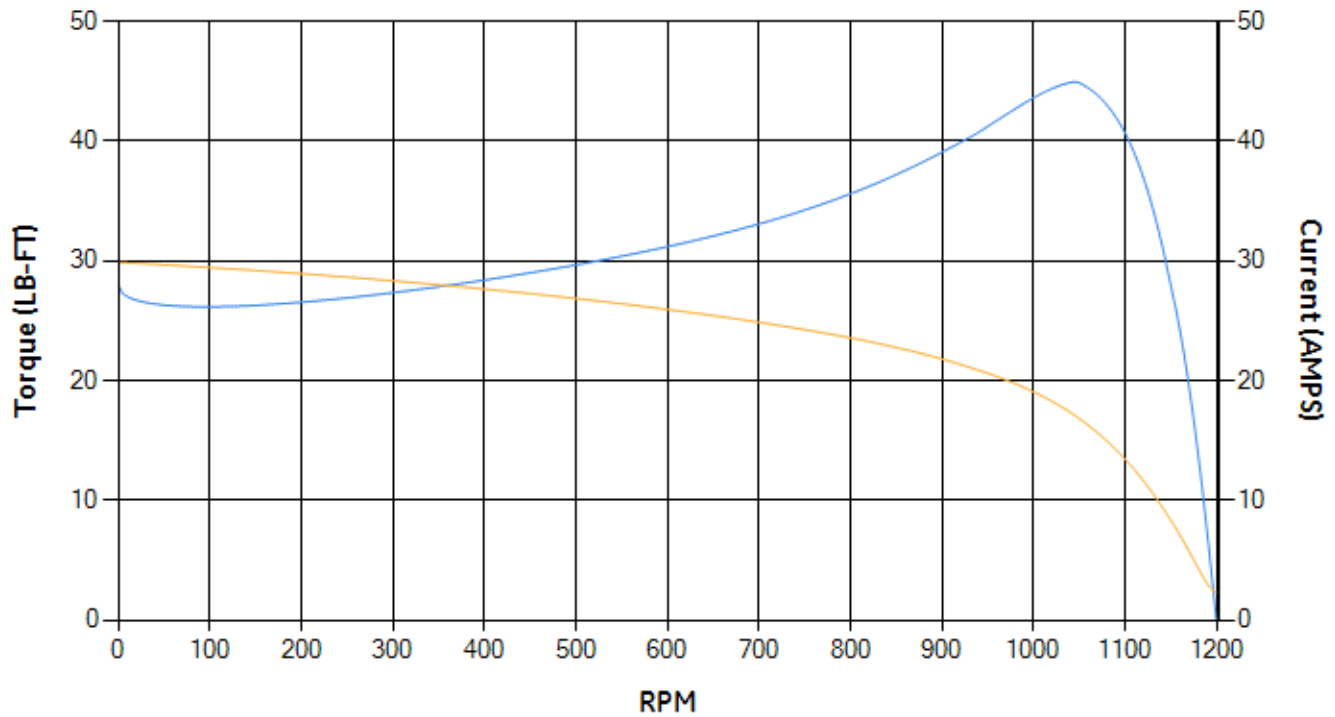
X/R Ratio: 3.473

Stator Slots: 36

Rotor Slots: 44

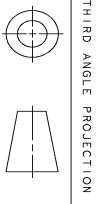
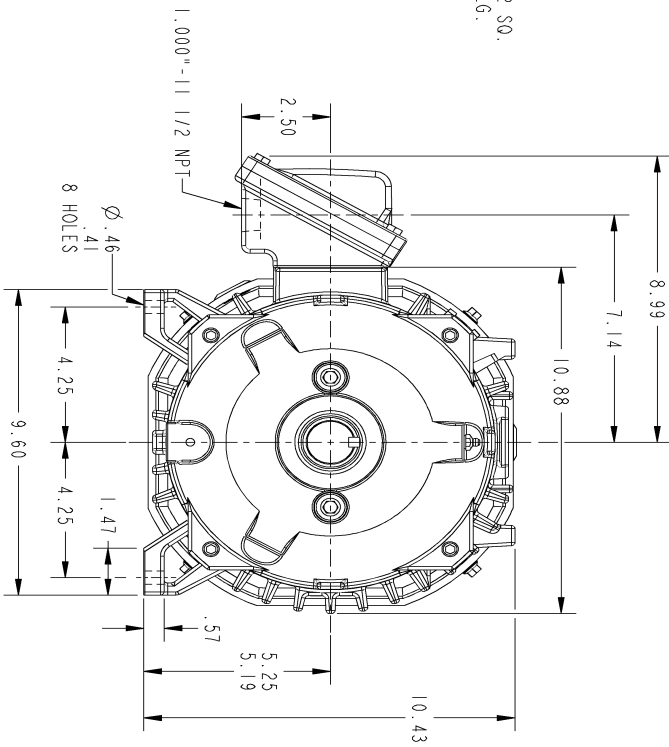
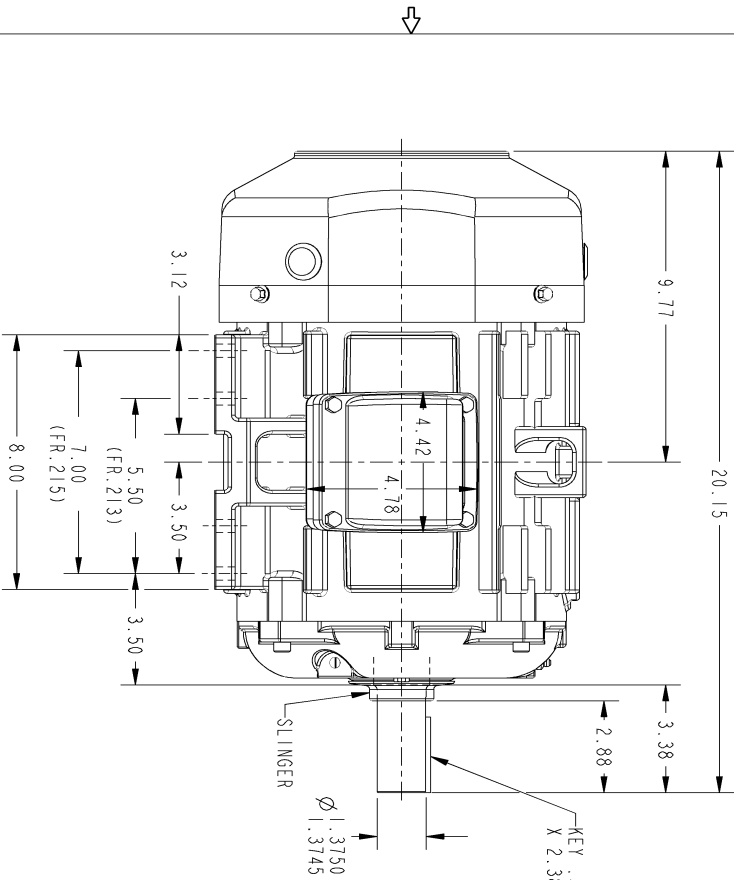
Speed Torque Current Curve (First Connection, First Speed)

— Torque — Current



Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
 NOTE 3: MOUNTING SURFACES TO BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT NOT TO EXCEED .002 T.I.R.



THIRD ANGLE PROJECTION

SIZE B DRAWING NO. 4002B5821RAP5201

SH 1 REV 1

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
1	ISAC#14-0486	06/17/14	KARTHIK

SIGNATURES	DATE
DRMAN BHARTHI	06/20/03
CHECKED ANAND	06/20/03
ENGRS BHARTHI	06/20/03
ISSUED	
APPLIED PRACTICES	

GE Industrial Systems GENERAL ELECTRIC COMPANY
 Fort Wayne, Indiana

INDUCTION MOTOR OUTLINE
 STANDARD CONSTRUCTION
 FME: FR20T TFC EXPLOSION PROOF 26 CU IN. C/BOX

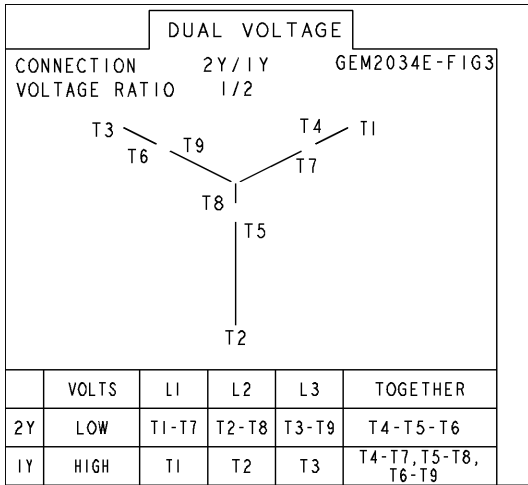
SIZE DRAWING 4002B5821RAP5201 REV. 1

SCALE: 0.300 REF. NO.: 4002B5821RAP201 SHEET 0F 1

DISTRIBUTION: PMP-1BK15

Marks:

Connection Diagram
GEM2034E-FIG3



Thermostat Connection
3027JE-2A

