

Product Information Packet

November 9, 2016

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

Model Number:	5KS405LAA204C
Catalog Number:	M7935
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239CC400AA

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:	5KS405LAA204C	Estimated Weight:	1440 Lbs
Outline Drawing:	239CC400AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	40BD1084B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	405T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	94.5
RPM:	1785	3/4 Load Efficiency:	95.6
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	38.1
Amps - FL:	98.1	Power Factor:	80.0
Service Factor:	1.15	Bearing - DE:	6316ZC3S0
Alt Service Factor:	--	Bearing - ODE:	6316ZC3S0

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:
 1.0 SF VAR TORQUE RANGE 0-60 HZ

Additional Information:

4P - T EXTN
 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING
 VIBRATION LIMIT 0.15 INCH PER SEC

Performance Characteristics

1st Winding 1st Connection

Design: 40BD1084B

Marks:

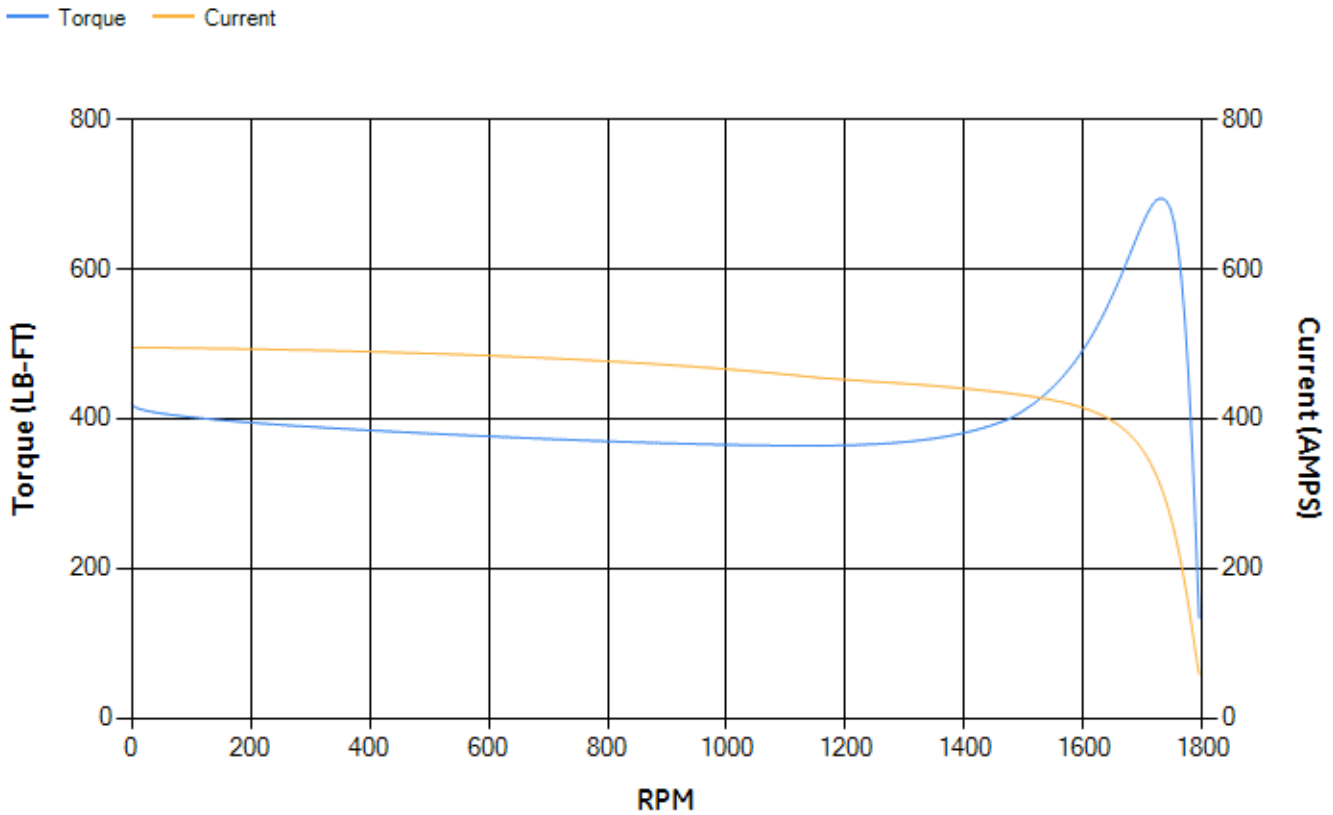
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.93	95.15	95.62	95.62	95.27	92.9	0.00
% PF	81.94	81.37	79.9	75	64.32	41.84	2.82
AMPS	120.32	111.21	98.01	78.31	61.09	48.16	42.43

TORQ(FL)#FT	294.27	TORQ(LR)%FL	142.54	TORQ(BD)%FL	235.64
AMPS(LR)	495.06	PF AT START	0.29		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2164 Lb-Ft Sq (91.1 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 42 seconds. Safe stall time at 100% voltage is 105 seconds cold, 50 seconds hot. Rotor inertia is 21.75 Lb-Ft Sq (0.92 Kg-meter Sq).

Open Circuit A-C:	0.651	Short Circuit D-C:	0.031
Short Circuit A-C:	0.047	X/R Ratio:	11.554
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7

