



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

December 5, 2020

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

Model Number:	5KS284XAA220DW8
Catalog Number:	M6626
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5828PAP5698

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:	5KS284XAA220DW8	Estimated Weight:	460 Lbs
Outline Drawing:	4002B5828PAP5698	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	661
Design Code:	28BD1258A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	284T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	93.6 %
Output Power:	25HP 18.5KW	Guaranteed Efficiency:	93.0 %
RPM:	1775	3/4 Load Efficiency:	93.9 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	6.9
Amps - FL:	29.1	Power Factor:	86.0
Service Factor:	1.15	Bearing - DE:	NU310ECJ/C3
Alt Service Factor:	--	Bearing - ODE:	6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

API-STD-661
 DE BRG 50RU03X3 ODE BRG 50BC03JP30
 IP 56
 ROLLER BEARING - FOR BELTED LOAD ONLY
 MAX RADIAL LOAD: 1100 LBF AT 2.31"
 FROM SHAFT SHOULDER
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS284XAA220DW8 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200C GC
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
 IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 200C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR 200C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 6-60 HZ, CHP 60-90 HZ.



Additional Information:

4P - T EXTN
STANDARD WALL MOUNT SHAFT UP
C/BOX 137 CU IN-1.50 NPT
VERTICAL MOUNT SHAFT UP
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL BOTH ENDS
GROUND SCREW ON FRAME
SHAFT RUNOUT LIMIT .002" TIR
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,
AND PLUG THREADS
OIL RESISTANT SLEEVING ON LEADS
B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
PRECISION VIBRATION LIMIT



Performance Characteristics

1st Winding 1st Connection

Design: 28BD1258A

Marks:

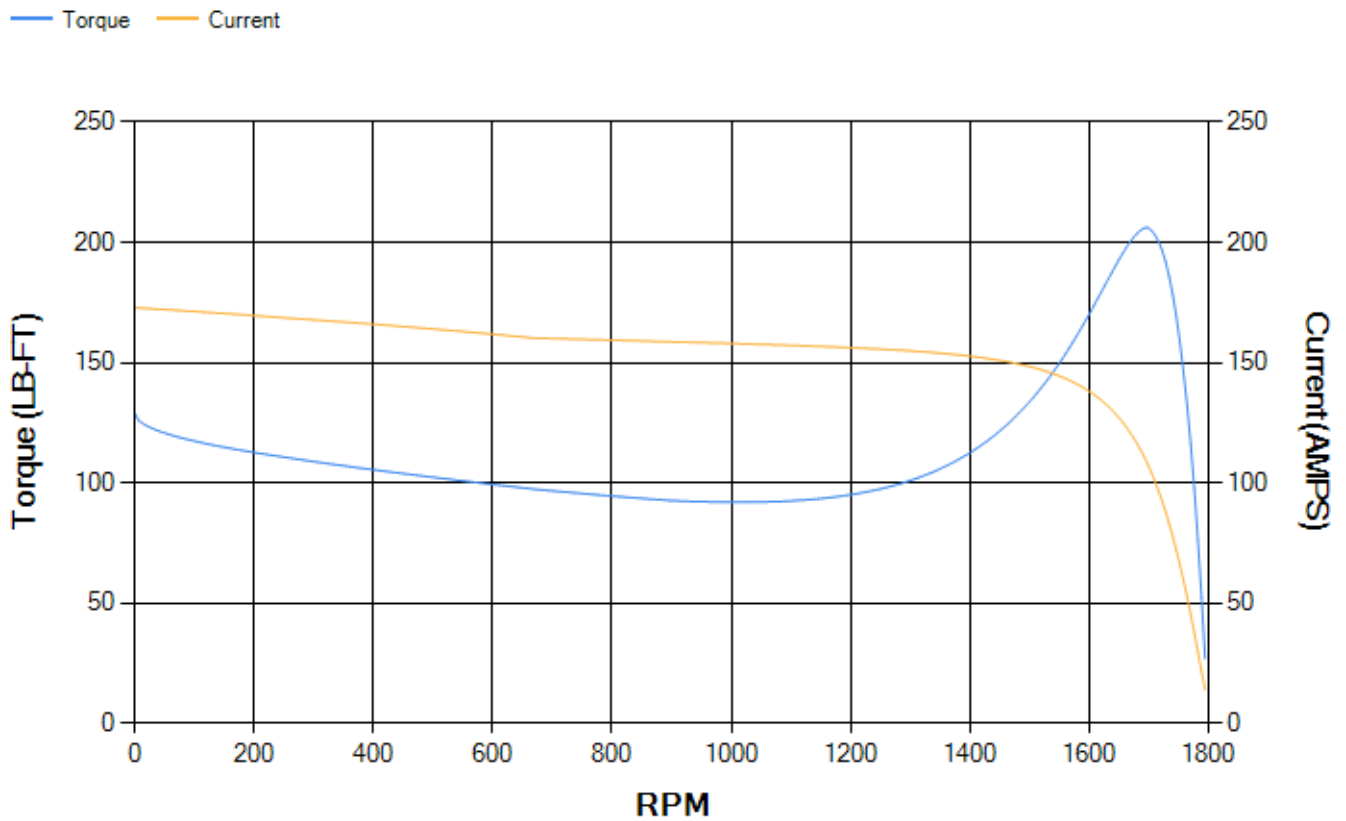
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.13	92.59	93.39	93.89	93.91	91.66	0.00
% PF	86.93	86.75	86.02	82.91	74.85	53.48	4.45
AMPS	36.52	33.5	29.11	22.54	16.64	11.93	9.66

TORQ(FL)#FT	73.88	TORQ(LR)%FL	174.63	TORQ(BD)%FL	278.08
AMPS(LR)	172.8	PF AT START	0.39		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 800 Lb-Ft Sq (33.68 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 53 seconds. Safe stall time at 100% voltage is 100 seconds cold, 65 seconds hot. Rotor inertia is 4.71 Lb-Ft Sq (0.2 Kg-meter Sq).

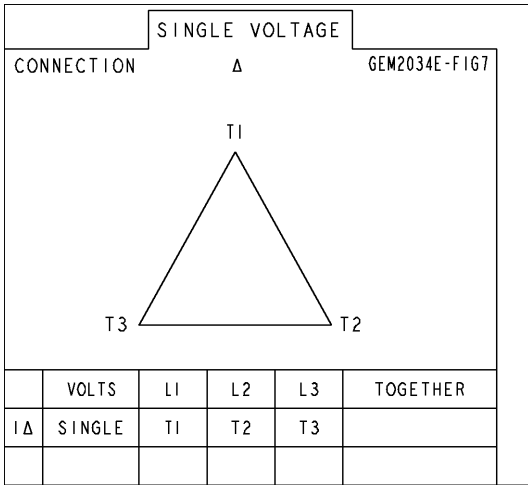
Open Circuit A-C:	0.608	Short Circuit D-C:	0.015
Short Circuit A-C:	0.027	X/R Ratio:	5.595
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5284TS1	4004D5284SE1
Bearing	235A2527AC01	235A2508EC01
Slinger/Inproseal	4002B5914GF4	4002B5914AG5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	4003C5789PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

