

General Purpose Motors

Model No: 284TSTFCD6001

Catalog No: GT1027A

General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 284TS
Frame, TEFC

Product Information Packet: Model No: 284TSTFCD6001, Catalog No: GT1027A General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 284TS Frame, TEFC

Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	3555 & 2955 r/min	Synchronous RPM	3600 & 3000 r/min
Service Factor	1.15 & 1.15	Frame	284TS
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	91.7 & 91 %	Ambient Temperature	40 °C
Frequency	60 & 50 Hz	Current	60/30 & 58/29 A
Power Factor	86	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6211	UL	Listed
CSA	Y	CE	Y
IP Code	55	Number of Speeds	1
Hazardous Location	DIVISION 2 T2B		

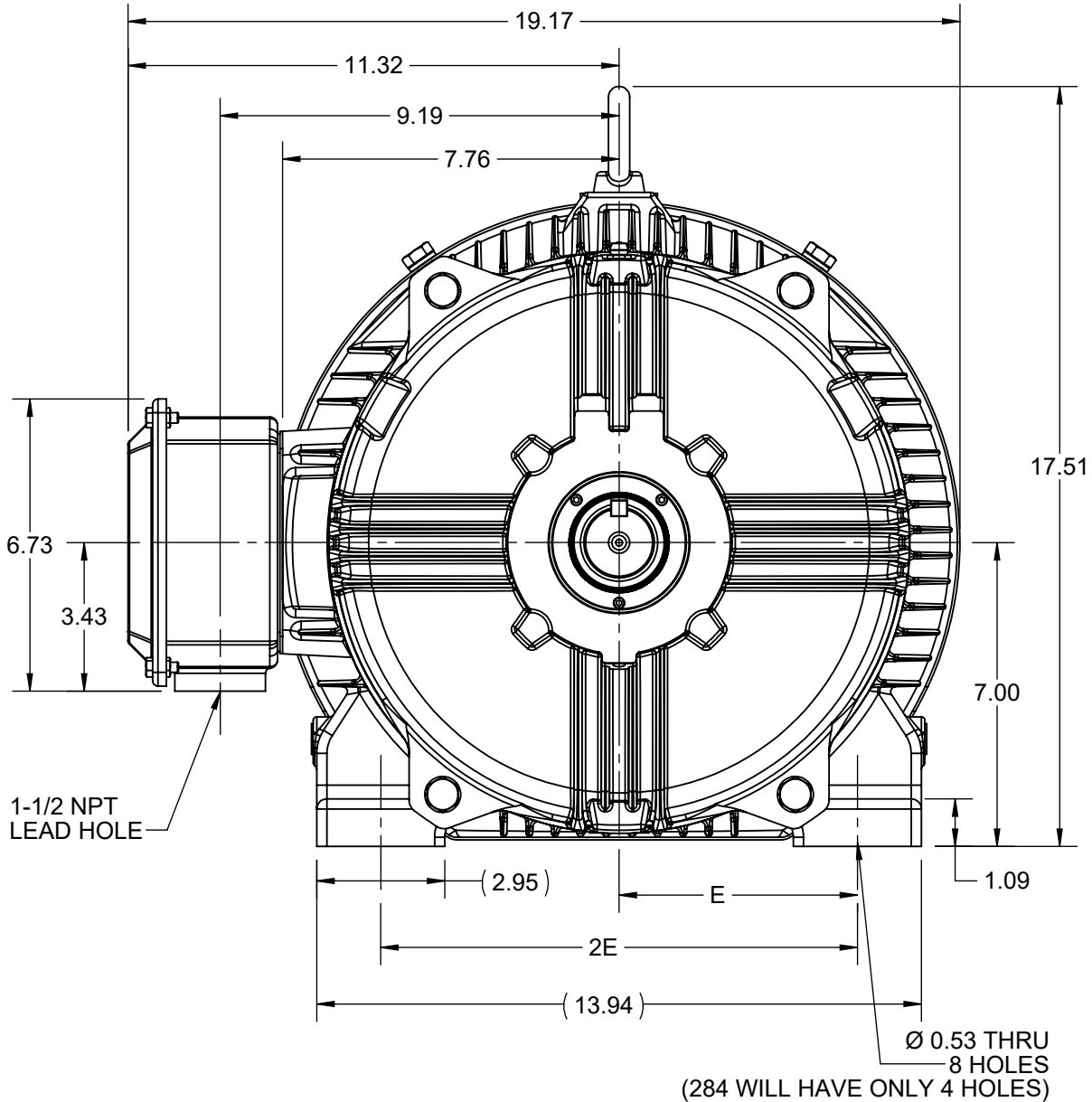
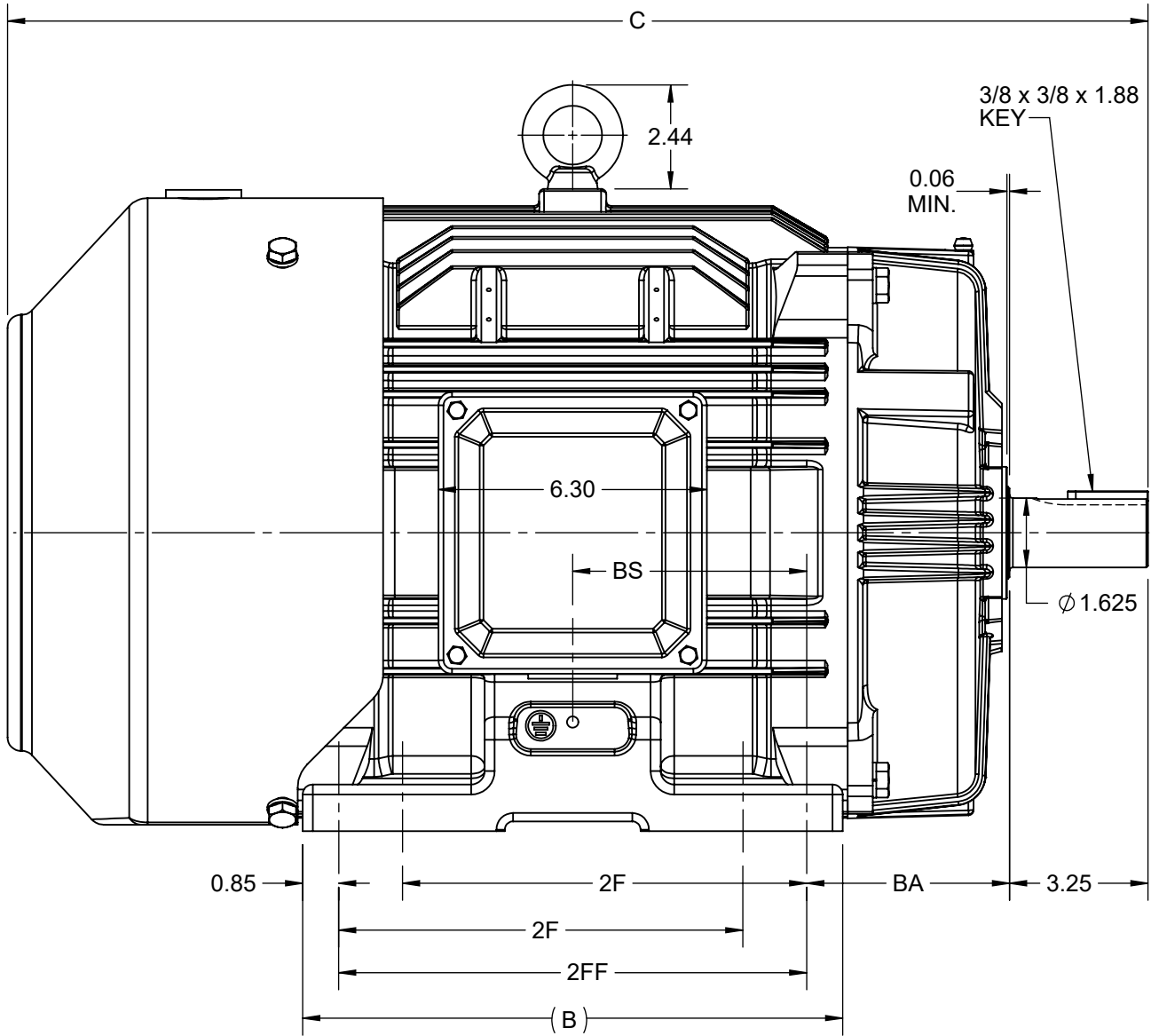
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.395 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	25.28 in
Shaft Diameter	1 5/8 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 2:1/Variable 10:1

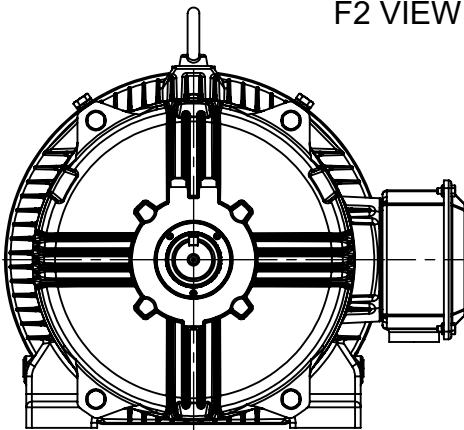
Drawings

Connection Drawing	EE7308AA	Outline Drawing	SS620698-100
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4					3					2		1	
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME			
100	10.83	25.28	5.50	11.00	---	9.50	4.75	4.75	F1 OR F2	284T			
200	12.68	26.78			9.50	11.00		5.50		284/286T			



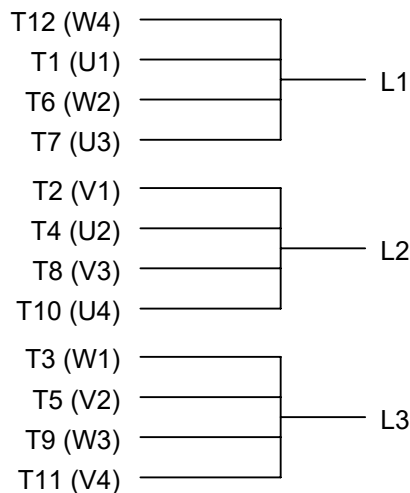
F2 VIEW



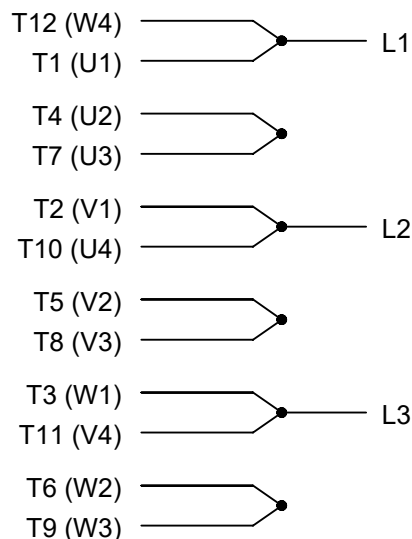
DRAWING REVISION D	REVISION BY SB	REV DATE/© DATE 08/12/2025
REQUEST NUMBER CR-0023556	APPROVED BY SBD	DATE 08/12/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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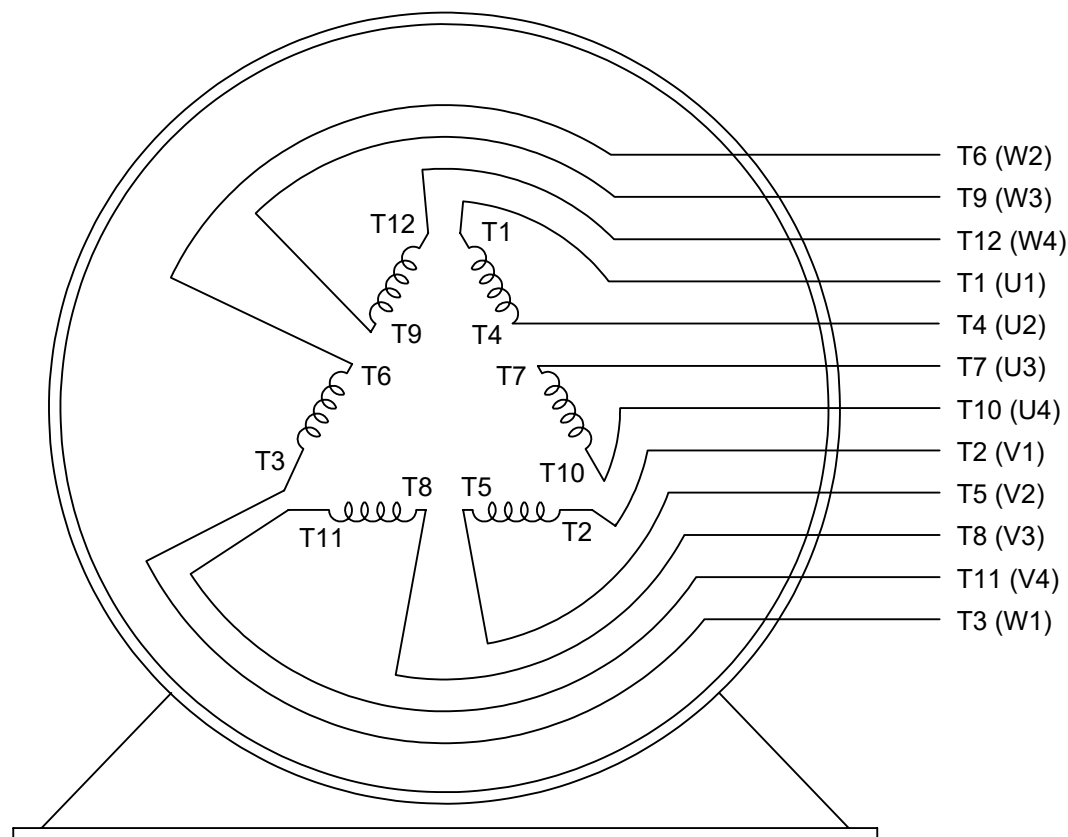
DRAWN BY SMAR	marathon™		
DATE 07/07/2015			
APPROVED BY SBD	DESCRIPTION OUTLINE		
DATE 07/07/2015	284/286TS FR-TEFC-CAST IRON		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS620698	SHEET 1 OF 1



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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DRAWN BY LZ	DATE 01-12-1994
APPROVED BY GK	DATE 01-14-1994
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7308AA	SHEET 1 OF 1

Data Sheet

Date: 1/25/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



284TSTFCD6001

Submittal

Data @ 460 V

Motor Load Data

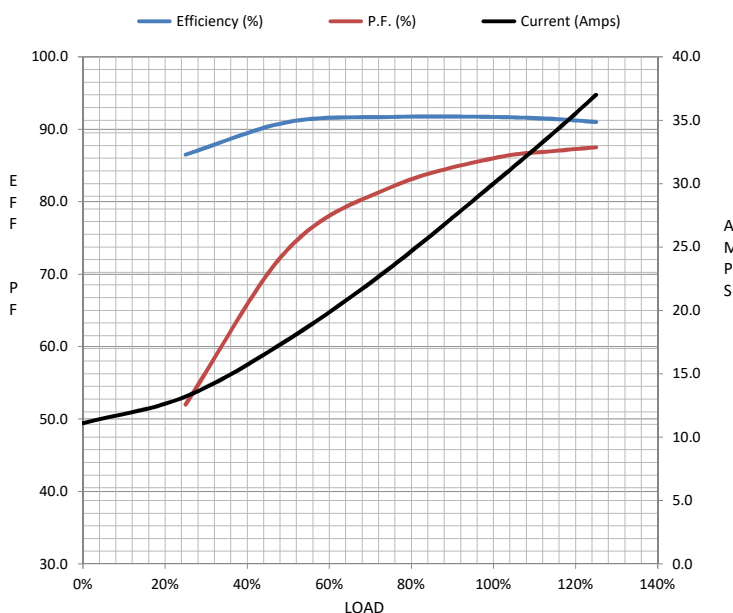
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	11.1	13.2	17.7	23.4	30.0	34.1	37.0	181	
Torque (ft-lb)	0.00	9.2	18.5	27.5	37.0	42.5	46.3	65.0	
RPM	3600	3588	3578	3565	3555	3546	3540	0	
Efficiency (%)		86.5	91.0	91.7	91.7	91.4	91.0		
P.F. (%)	8.0	52.0	73.5	82.0	86.0	87.0	87.5	35.0	

Motor Speed Data

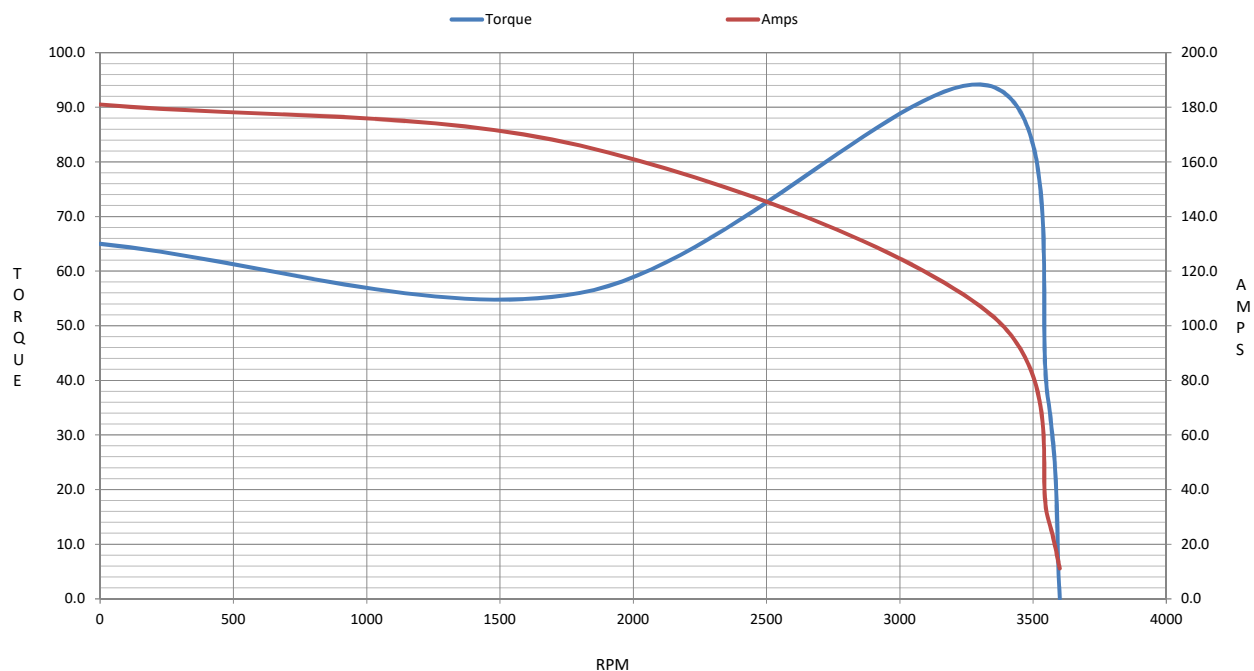
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3330	3555	3600
Current (Amps)	181	166	105	30.0	11.1
Torque (ft-lb)	65.0	56.0	94.0	37.0	0.00

Information Block

HP	25.0			
Sync. RPM	3600			
Frame	284			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	2.90 Lb-Ft ²			
Ref Wdg	HE31802004 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 20:1/VARIABLE 20:1			
Outline Dwg	B-SS620698			
Conn. Diag	A-EE7308AA			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2610	0.1130	0.8260	0.8640	24.3810



Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 284TSTFCD6001 AA

WINDING#: HE31802004 NONE 2

CONN. DIAGRAM: A-EE7308AA

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS620698

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&20	18.7&14.9	3600	3555&2955	284TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	60/30&58/29	LINE OR INVERTER	CONTINUOU S	F7	1.15/1.0	40	3300

FULL LOAD EFF: 91.7&91	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&86	3/4 LOAD PF: 82	1/2 LOAD PF: 73.5	91	SQ CAGE INV RATED	22.2 / 11.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
37 LB-FT	362 / 181	65 LB-FT 176	94 LB-FT 254	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	2.9 LB-FT^2	32 LB-FT^2	20 SEC.	2	460 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6211	6211						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further
information

INVERTER TORQUE: CONSTANT 10:1			
INV. HP SPEED RANGE: NONE			
ENCODER: NONE			
NONE NONE			
NONE NONE PPR			
BRAKE: NONE NONE			
NONE P/N NONE			
NONE NONE			
NONE FT-LB	NONE V	NONE Hz	

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DATE: 07/03/2017 03:35:57 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.