

General Purpose Motors

Model No: 447TTFCD6087

Catalog No: GT1053A

General Purpose Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 447T Frame, TEFC

Product Information Packet: Model No: 447TTFCD6087, Catalog No: GT1053A General Purpose Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 447T Frame, TEFC

Nameplate Specifications

Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	1190 & 990 r/min	Synchronous RPM	1200 & 1000 r/min
Service Factor	1.15 & 1.15	Frame	447T
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	95.8 & 95.4 %	Ambient Temperature	40 °C
Frequency	60 & 50 Hz	Current	171 & 173 A
Power Factor	86	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Drive End Bearing Size	6319
Opp Drive End Bearing Size	6317	UL	Listed
CSA	Y	CE	Y
IP Code	55	Number of Speeds	1
Hazardous Location	DIVISION 2 T2B		

Technical Specifications

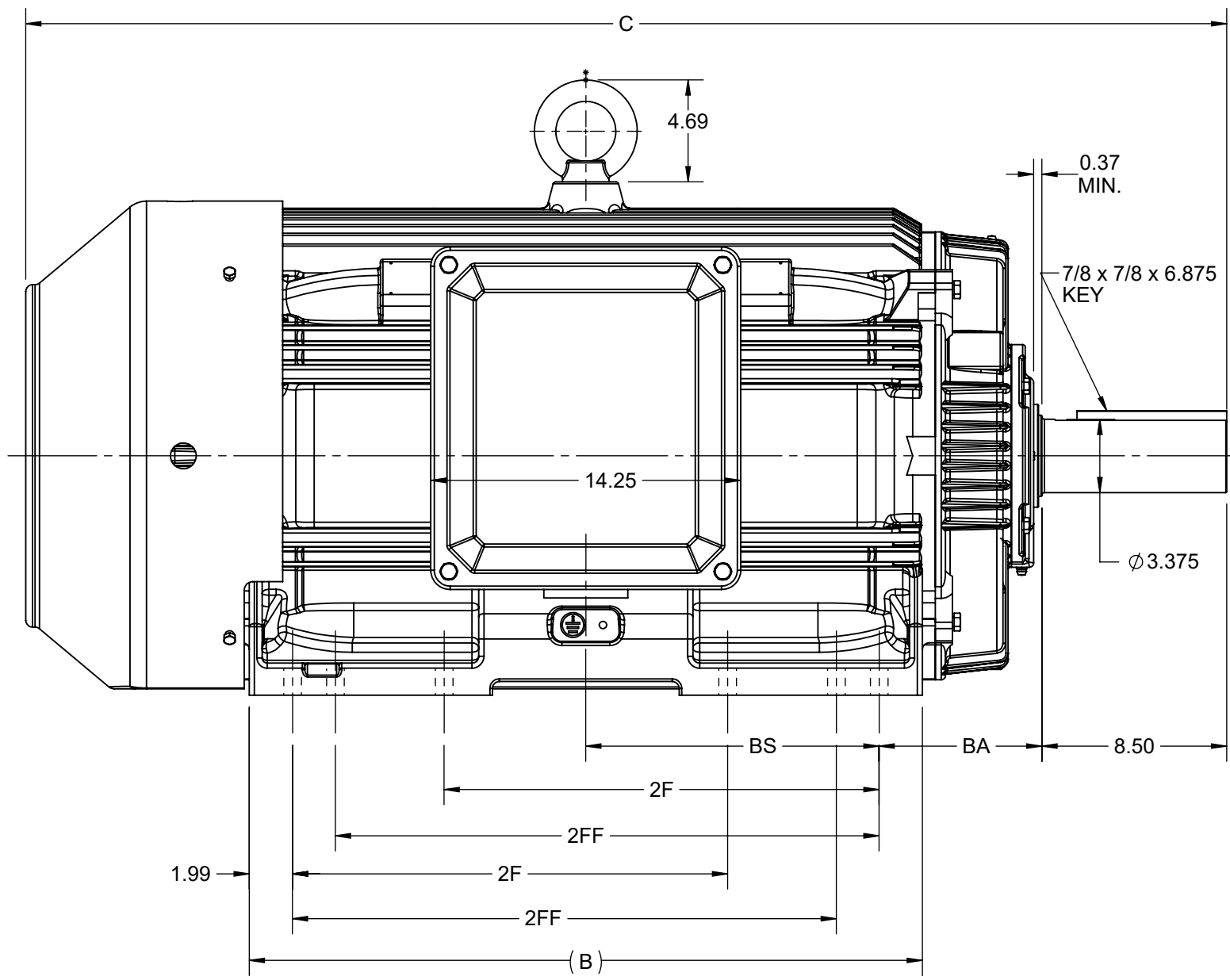
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.0223 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	55.21 in
Shaft Diameter	3 3/8 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 2:1/Variable 10:1

Drawings

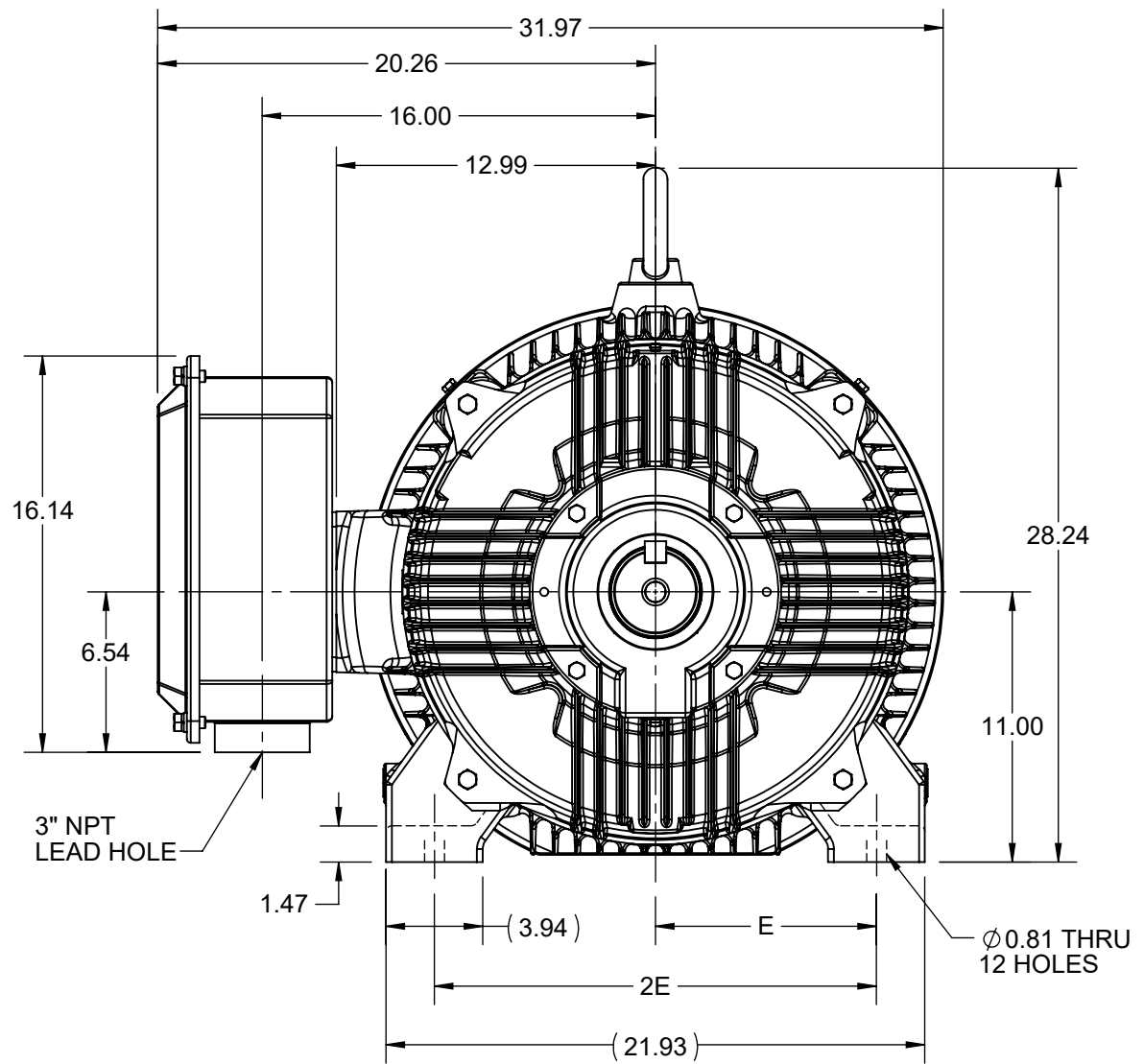
Connection Drawing	EE7341A	Outline Drawing	SS557013
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4						3			2		1	
B	C	E	2E	2F	2FF	BA	BS	MOUNTING				
30.94	55.21	9.00	18.00	20.00	25.00	7.50	13.48	F1 OR F2				

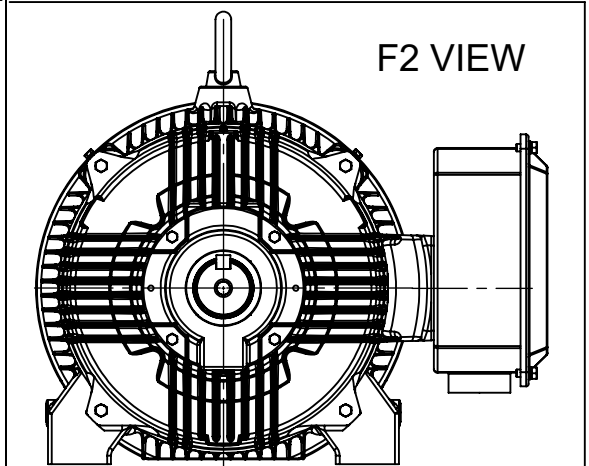
B



B



A



A

DRAWING REVISION E	REVISION BY SB	REV DATE/© DATE 09/02/2025
REQUEST NUMBER CR-0023556	APPROVED BY SBD	DATE 09/02/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY NIV	marathon™		
DATE 23/05/2016			
APPROVED BY SBD	DESCRIPTION OUTLINE 447/449T FR-TEFC		
DATE 23/05/2016			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS557013	SHEET 1 OF 1

4

3

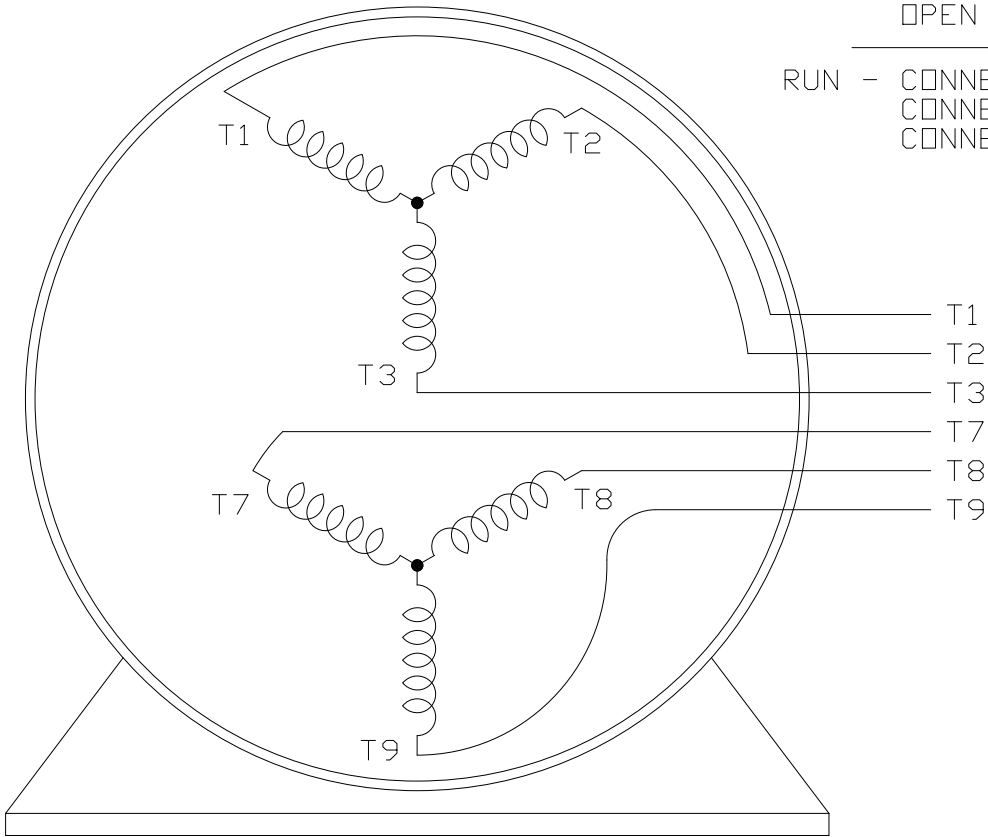
2

1

THREE PHASE - PART WINDING START MOTOR
2 CKT Y - 6 LEADS - 6 POLE

START - CONNECT LINE 1 TO T1
CONNECT LINE 2 TO T2
CONNECT LINE 3 TO T3
OPEN T7, T8, AND T9

RUN - CONNECT LINE 1 TO T1 & T7
CONNECT LINE 2 TO T2 & T8
CONNECT LINE 3 TO T3 & T9



VIEWING TERMINAL END

SEE 7341P FOR PROTECTORS
SEE 7441S FOR SPACE HEATERS
SEE 7344 FOR A LEAD DUAL VOLTAGE

DRAWING REVISION C	REVISION BY SB	REV DATE/ © DATE 08/20/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY DRS	marathon™ CONN DIAGRAM - 3 PHASE 2 CKT Y - 6 LEADS - PART WINDING START - 6 POLE			
REQUEST NUMBER CR-0023600	APPROVED BY SBD	DATE 08/20/2025		DATE 12/14/1998				
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED				APPROVED BY GK				
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				REFERENCE				
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER 4 of 6 EE7341A	

Data Sheet

Date: 1/28/2019

Customer: _____

Attention: _____

Submitted by: DINESH SUDDULA



447TTFCD6087

Submittal

Data @ 460 V

Motor Load Data

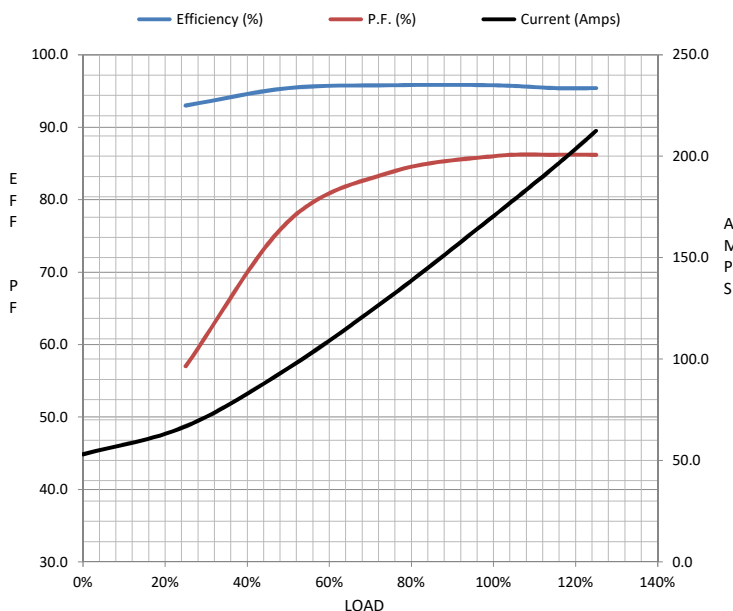
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	53.0	66.8	95.5	131	171	195	213	1,085	
Torque (ft-lb)	0.00	165	330	495	662	760	830	1,192	
RPM	1200	1198	1195	1192	1190	1,188	1188	0	
Efficiency (%)		93.0	95.4	95.8	95.8	95.4	95.4		
P.F. (%)	5.0	57.0	77.0	83.8	86.0	86.2	86.2	30.0	

Motor Speed Data

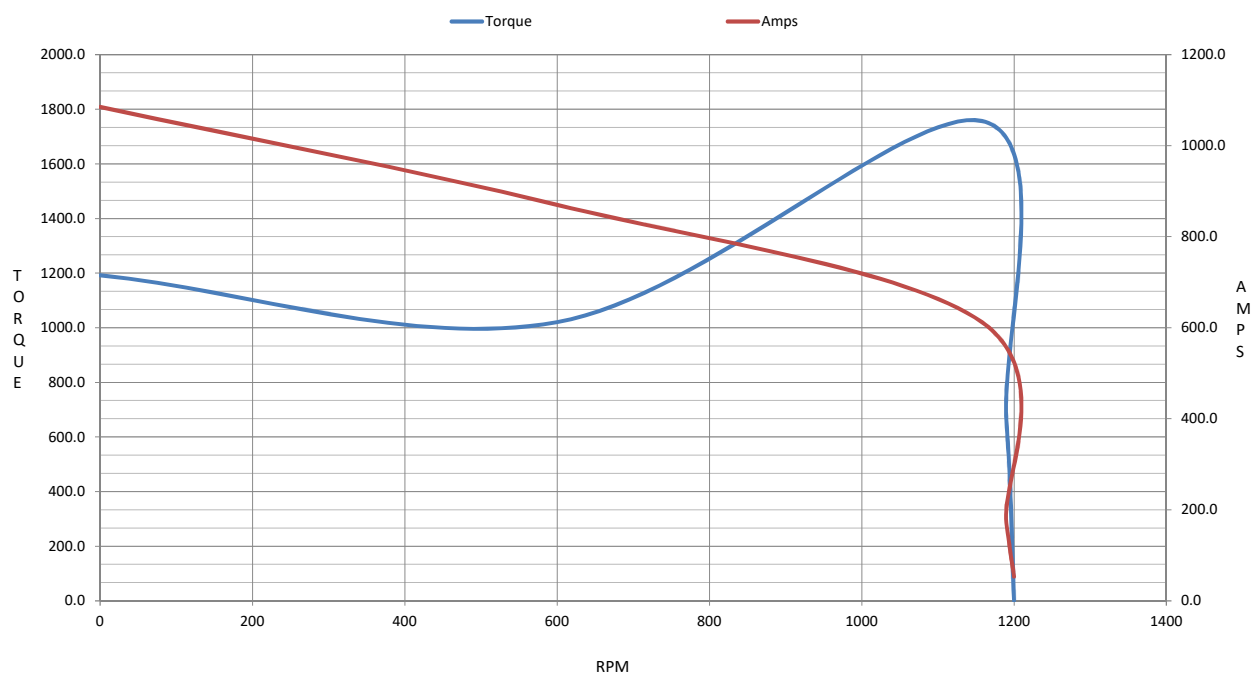
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1158	1190	1200
Current (Amps)	1,085	870	612	171	53.0
Torque (ft-lb)	1,192	1,020	1,757	662	0.00

Information Block

HP	150.0			
Sync. RPM	1200			
Frame	447			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	3,300	feet		
Rotor/Shaft wk ²	138	Lb-Ft ²		
Ref Wdg	HE32806007 NONE			
Sound Pressure @ 1M	75	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS557013			
Conn. Diag	EE7341C			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0140	0.0130	0.1370	0.2270	4.9520



Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 447TTFC6087 AA
 CONN. DIAGRAM: EE7341C
 OUTLINE: SS557013

WINDING#: HE32806007 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93	1200	1190&990	447T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	171&173	PWS OR INVERTER	CONTINUOUS	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95.8&95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&86	3/4 LOAD PF: 83.8	1/2 LOAD PF: 77	95.4	SQ CAGE INV RATED	53

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
662 LB-FT	1085	1192 LB-FT 180	1757 LB-FT 265	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	138 LB-FT^2	- LB-FT^2	25 SEC.	-	2900 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	DIVISION 2 T2B	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6319	6317	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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: VARIABLE 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 02:16:10 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.