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General Purpose Motors

Model No: 445TSTFCD6005
Catalog No: GT1151A

General Purpose Motor, 150 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 445TS Frame, TEFC

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Product Information Packet: Model No: 445TSTFCD6005, Catalog No: GT1151A General Purpose Motor, 150 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 445TS Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**150 Hp**
Output KW	**112.0 kW**	Voltage	**575 V**
Speed	**3575 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**445TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**95 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**128.0 A**
Power Factor	**90**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6314**
Opp Drive End Bearing Size	**6314**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

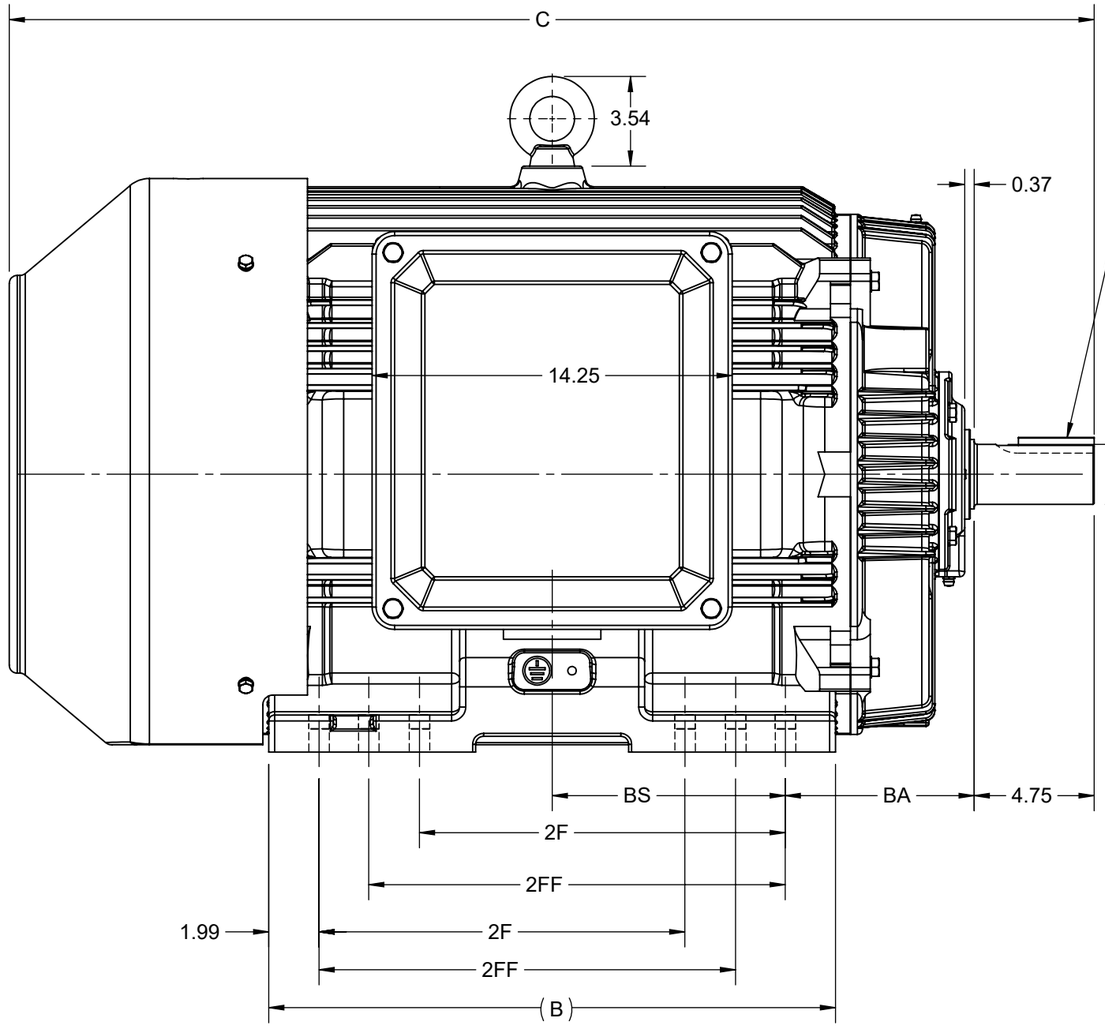
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.0304 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Overall Length	**42.96 in**
Frame Length	**23.62 in**	Shaft Diameter	**2.375 in**
Shaft Extension	**4.75 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		

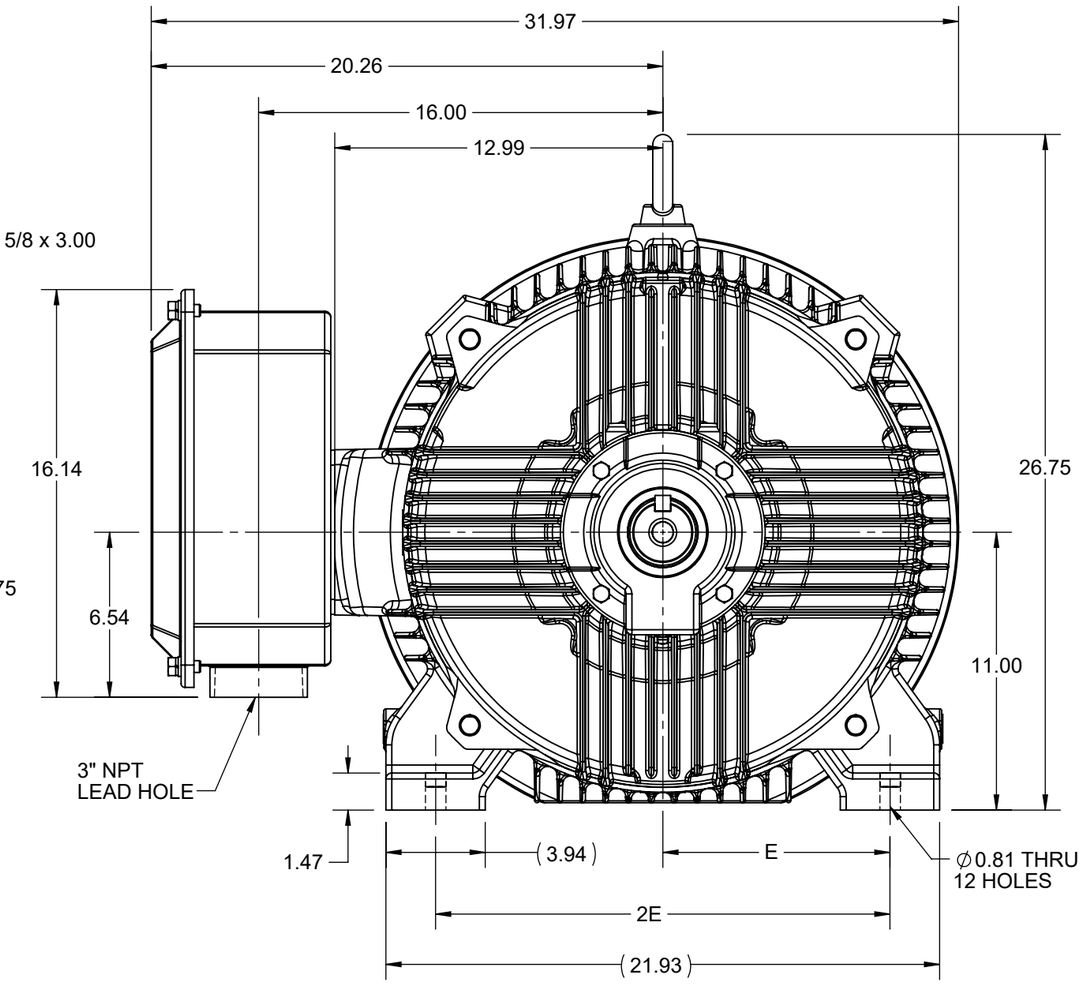
Drawings

Connection Drawing	**EE7300U**	Outline Drawing	**SS557008**

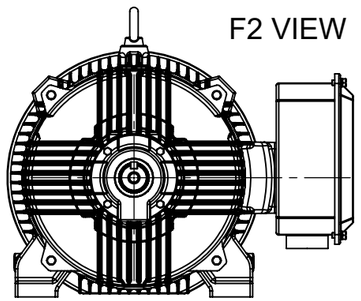
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B	C	E	2E	2F	2FF	BA	BS	MOUNTING
22.44	42.96	9.00	18.00	14.50	16.50	7.50	9.23	F1 OR F2





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
F	SB	08/20/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023556	SBD	08/20/2025

REQUEST NUMBER DESCRIPTION
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DATE	29/03/2015
APPROVED BY	SBD
DATE	29/03/2015
REFERENCE	

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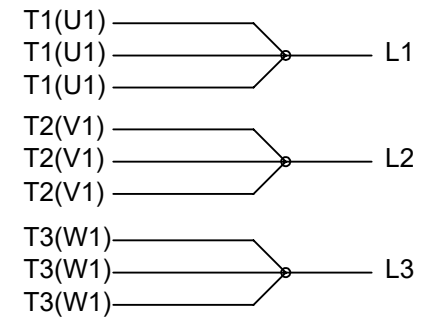
DESCRIPTION
OUTLINE
444/445TS FR-TEFC

MATERIAL	PROCESS/FINISH

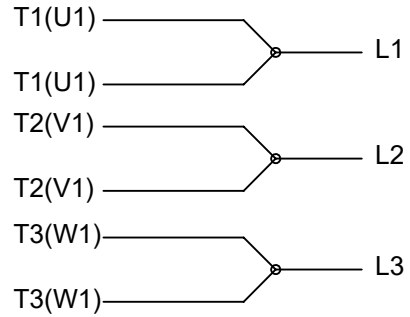
THIRD ANGLE PROJECTION

SIZE	DRAWING NUMBER	SHEET
B	SS557008	1 OF 1

IF MOTOR HAS 9 LEADS

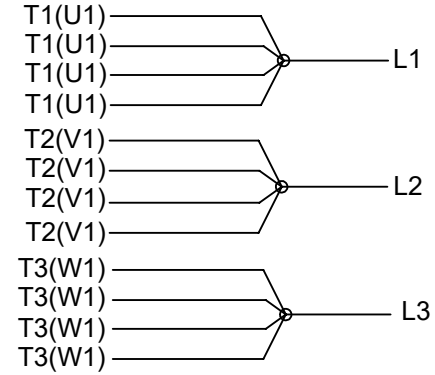


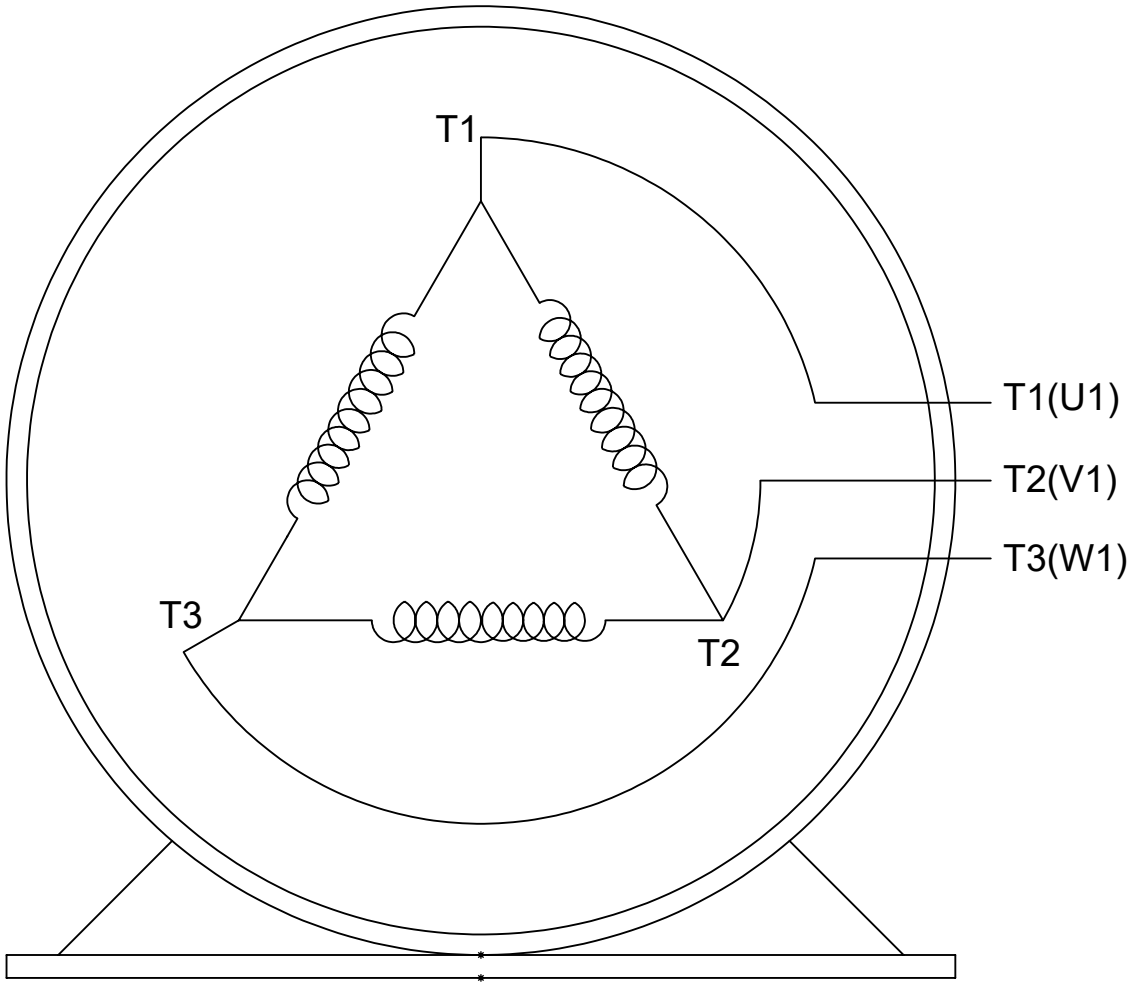
IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS





VIEW OF TERMINAL END

DRAWING REVISION	REVISION BY	REV DATE/© DATE
M	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025

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DATE	09-27-1996
APPROVED BY	GK
DATE	09-30-1996
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø SINGLE VOLTAGE

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300U	1 OF 1

Data Sheet

Date: 5/3/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

445TSTFCD6005

Submittal

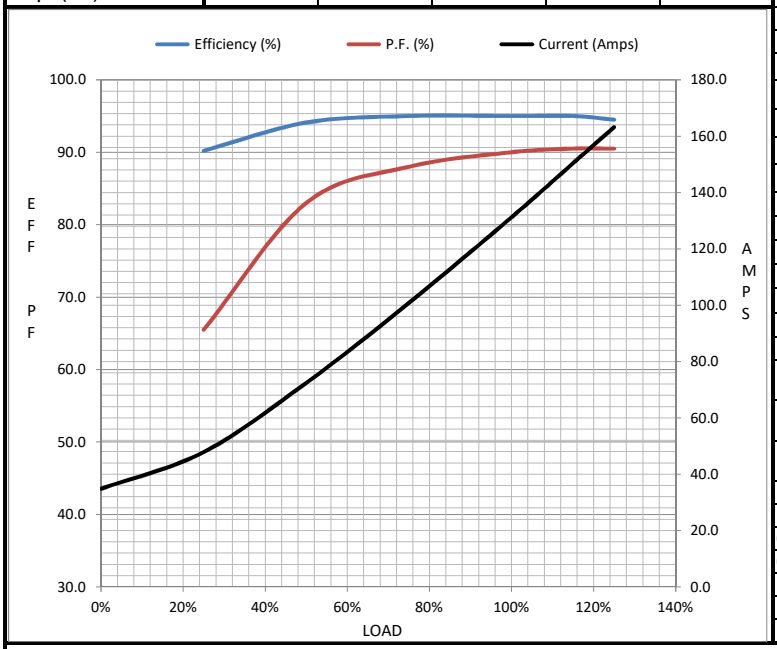
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	34.8	47.8	72.4	101	131	150	163	868	
Torque (ft-lb)	0.00	55.0	110	165	220	254	276	363	
RPM	3600	3595	3590	3585	3580	3,578	3575	0	
Efficiency (%)		90.2	94.1	95.0	95.0	95.0	94.5		
P.F. (%)	9.0	65.5	83.0	88.0	90.0	90.5	90.5	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3480	3580	3600
Current (Amps)	868	692	520	131	34.8
Torque (ft-lb)	363	310	626	220	0.00

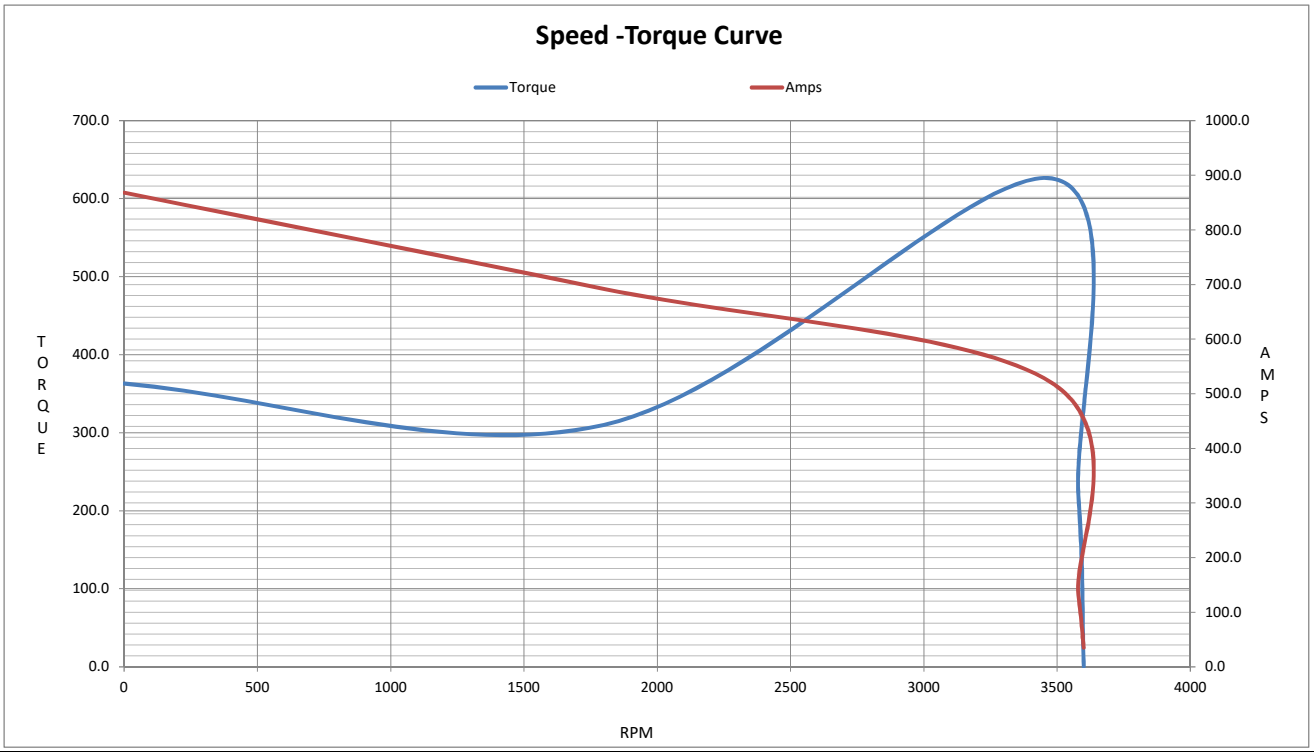


Information Block

HP	150.0	
Sync. RPM	3600	
Frame	445182TTFC6080	
Enclosure	TEFC	
Construction	TFC	
Voltage	575	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	44.0	Lb-Ft²
Ref Wdg	HE32802010 NONE	
Sound Pressure @ 1M	82	dBA
VFD Rating	VARIABLE 10:1	
Outline Dwg	SS557008	
Conn. Diag	EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0220	0.0140	0.1890	0.2570	9.5390



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P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7300
OUTLINE: SS557008
WINDING: HE32802010 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 445TSTFCD6005
CAT #: GT1151A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	3600	3580	445TS	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	131	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	94.1	GTD EFF	ELECT. TYPE
F.L. PF	90.0	3/4 LD PF	88.0	1/2 LD PF	83.0	94.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
220 LB-FT	868	363 LB-FT 165%	626 LB-FT 285%	65

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
82 dBA	91 dBA	44.0 LB-FT²	120 LB-FT²	15 SEC.	2	2675 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	DIVISION 2 T2B	NO	NONE	BLUE - MARATHON

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6314	BALL 6314	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.022	0.014	0.189	0.257	9.539	0.080	ODE

NOTES
*
*

INVERTER TORQUE: VARIABLE 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY: FAREEDA DUDEKULA
DATE: 5/3/2018

FORM: 3531 REV_4 2/27/06

UL: NO LETTER - ME,WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL L