marathon®

General Purpose Motors

Model No: 444TSTFCD16002
Catalog No: GT1148A

General Purpose Motor, 125 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 444TS Frame, TEFC

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Product Information Packet: Model No: 444TSTFCD16002, Catalog No: GT1148A General Purpose Motor, 125 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 444TS Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**125 Hp**
Output KW	**93.0 kW**	Voltage	**575 V**
Speed	**3580 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**444TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**95 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**110.0 A**
Power Factor	**89.5**	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

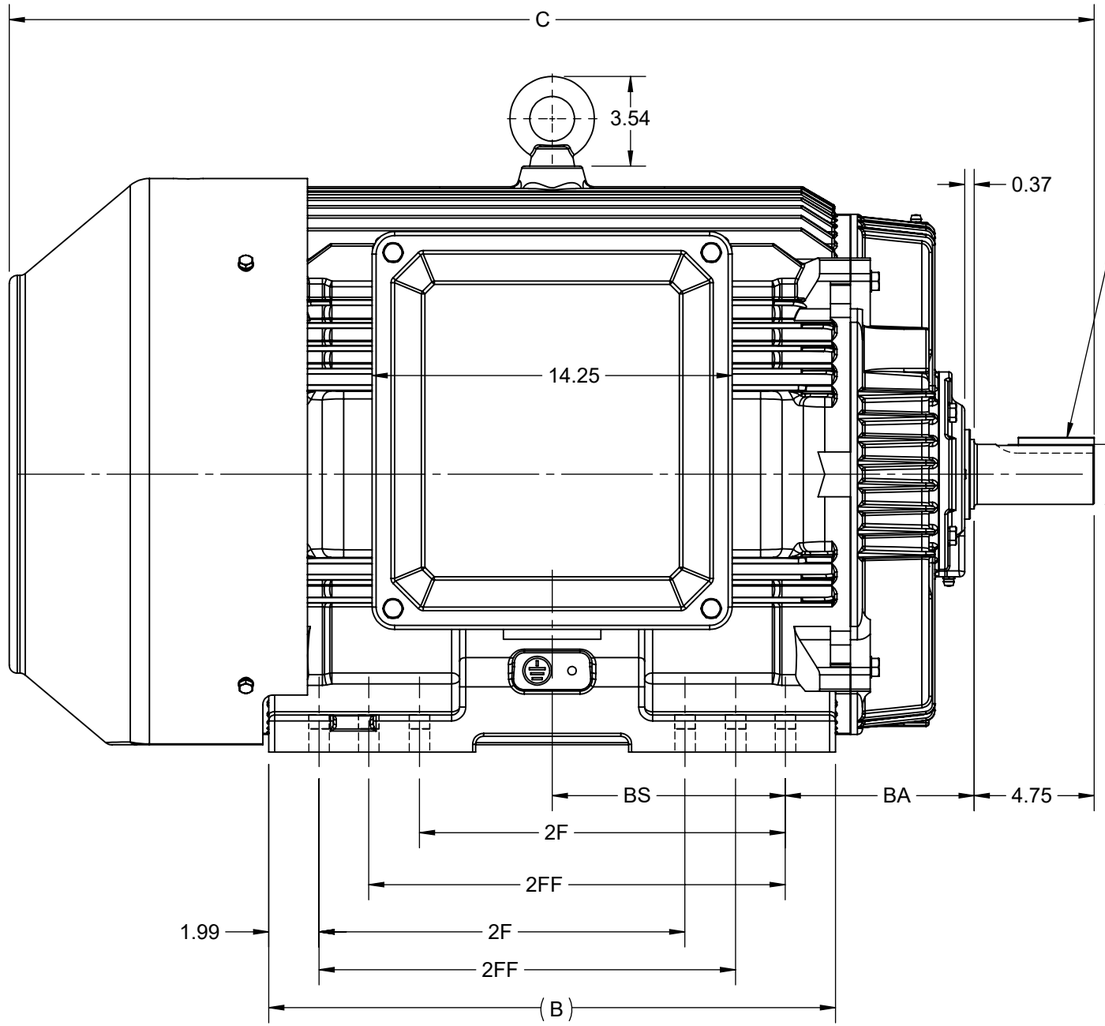
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.0341 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**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**		

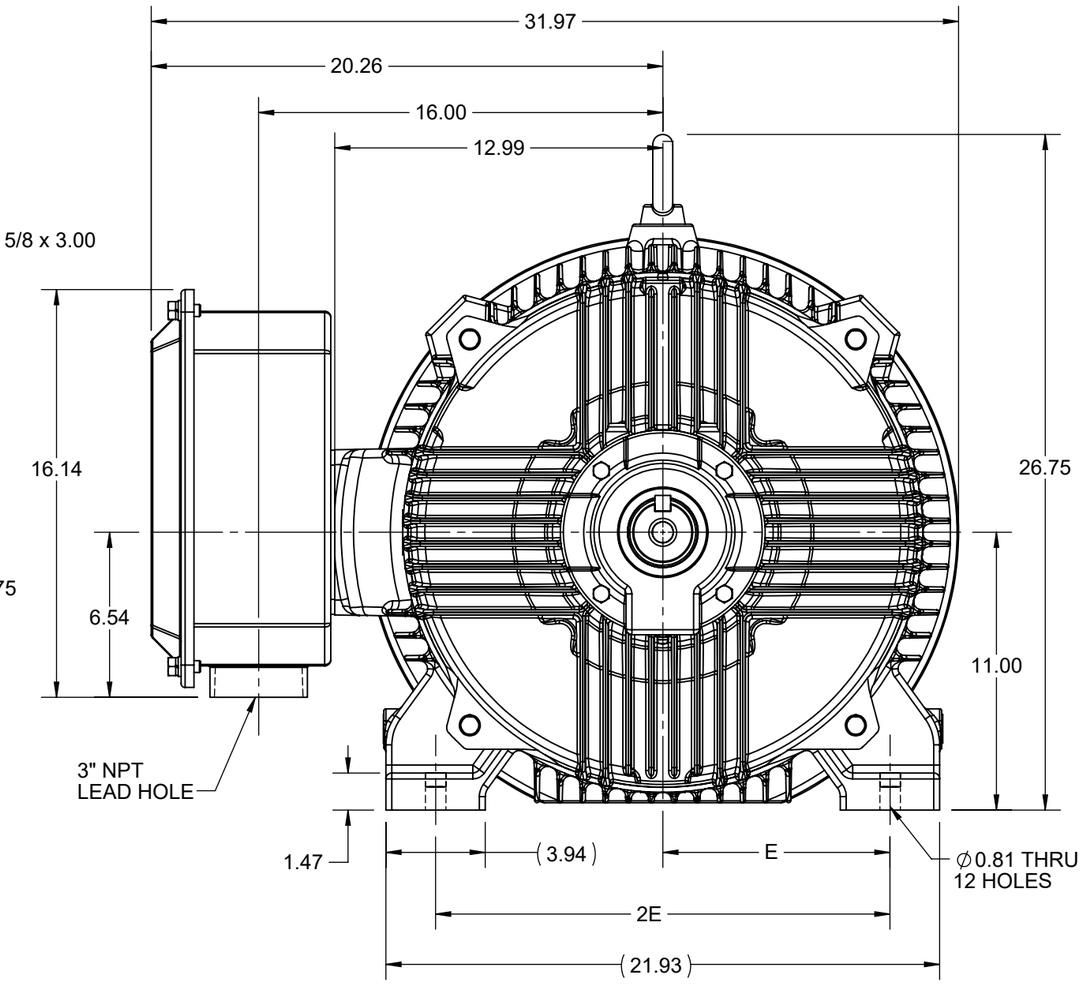
Drawings

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

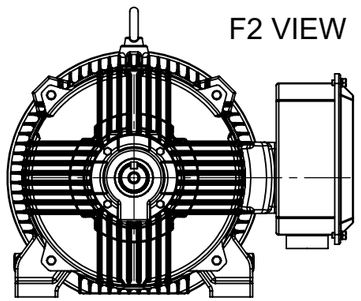
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B	C	E	2E	2F	2FF	BA	BS	MOUNTING
22.44	42.96	9.00	18.00	14.50	16.50	7.50	9.23	F1 OR F2





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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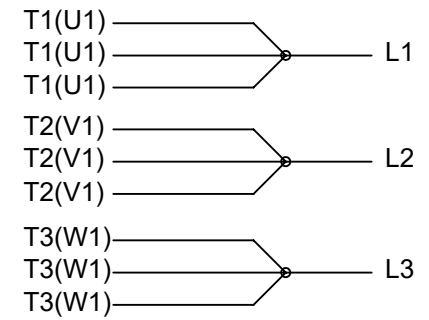
DESCRIPTION
OUTLINE
444/445TS FR-TEFC

MATERIAL	PROCESS/FINISH

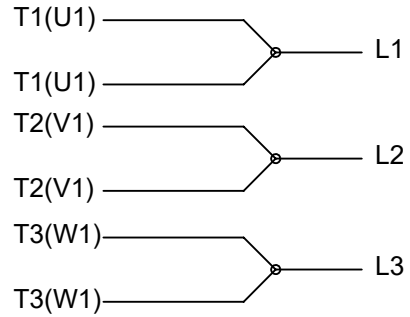
THIRD ANGLE PROJECTION

SIZE	DRAWING NUMBER	SHEET
B	SS557008	1 OF 1

IF MOTOR HAS 9 LEADS

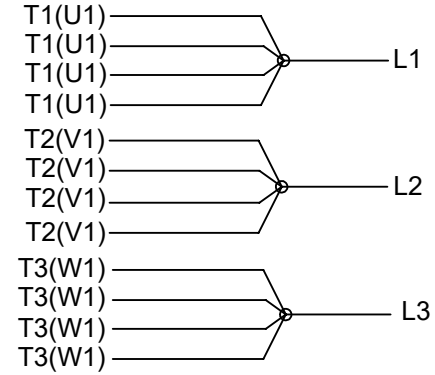


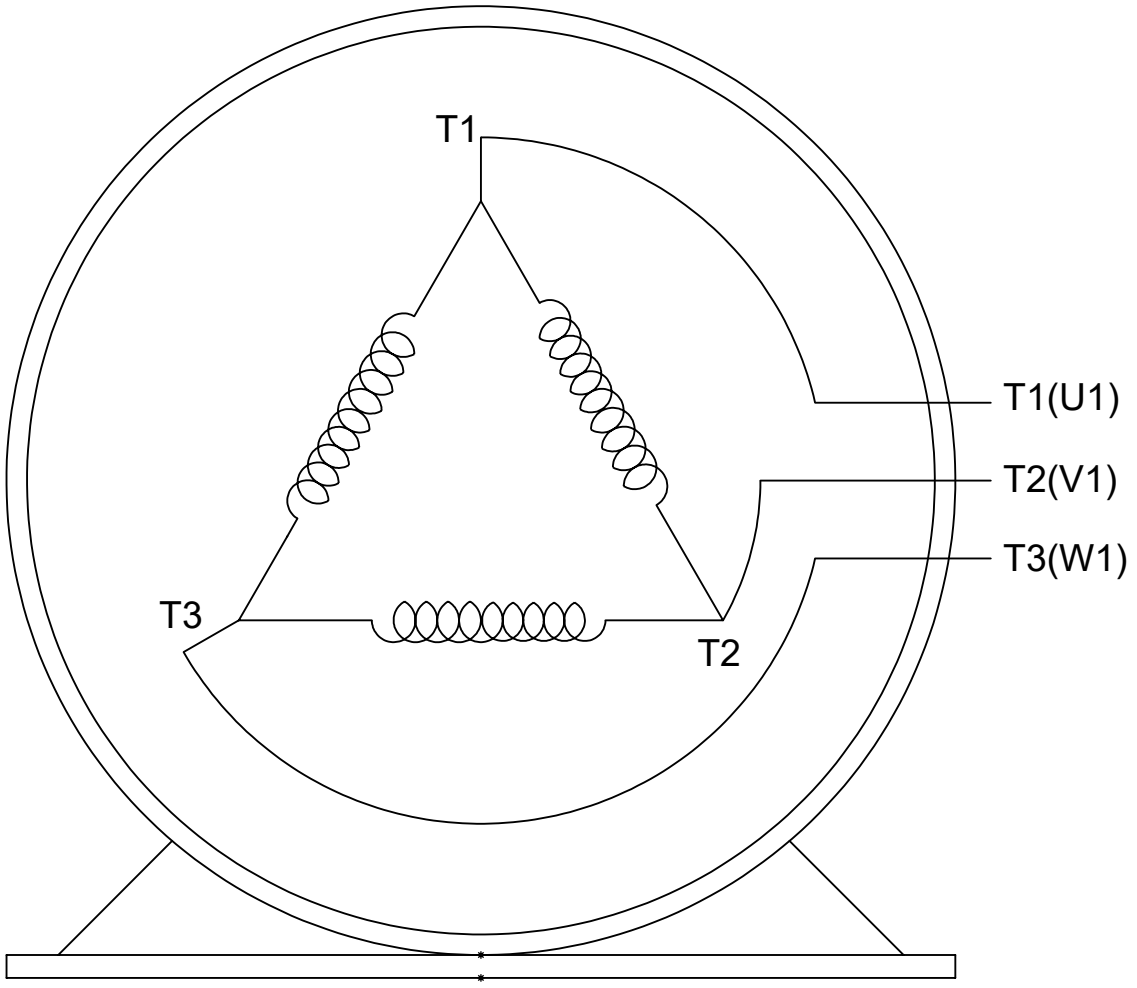
IF MOTOR HAS 6 LEADS



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	

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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

444TSTFCD16002

Submittal

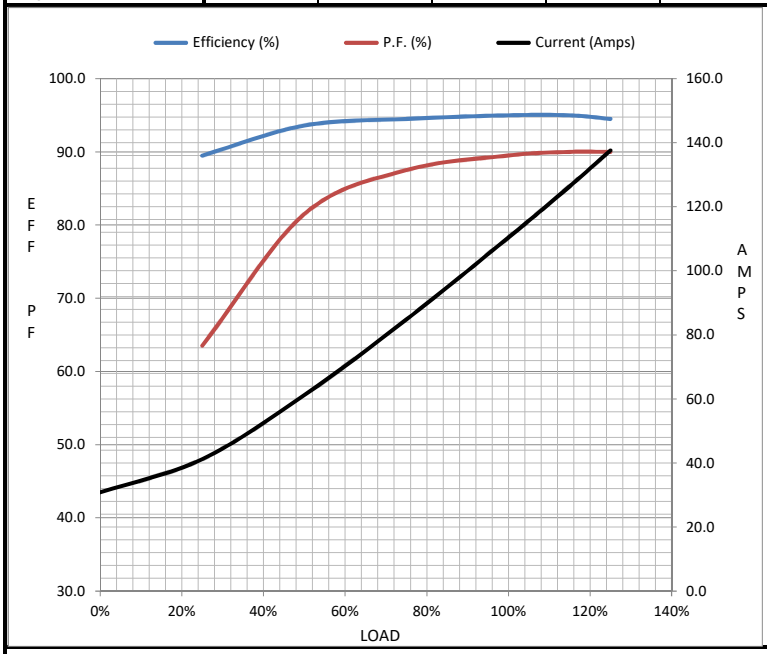
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	30.8	41.2	61.2	84.8	110	126	138	724	
Torque (ft-lb)	0.00	45.5	91.5	138	183	211	230	275	
RPM	3600	3595	3590	3585	3580	3,578	3575	0	
Efficiency (%)		89.5	93.6	94.5	95.0	95.0	94.5		
P.F. (%)	8.0	63.5	81.5	87.5	89.5	90.0	90.0	27.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3480	3580	3600
Current (Amps)	724	580	426	110	30.8
Torque (ft-lb)	275	226	513	183	0.00



Information Block

HP	125.0	
Sync. RPM	3600	
Frame	444182TTFC6080	
Enclosure	TEFC	
Construction	TFC	
Voltage	575	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	60	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	31.0	Lb-Ft²
Ref Wdg	HE32802009 NONE	
Sound Pressure @ 1M	87	dBA
VFD Rating	VARIABLE 10:1	
Outline Dwg	SS557008	
Conn. Diag	EE7300	

Additional Specifications:

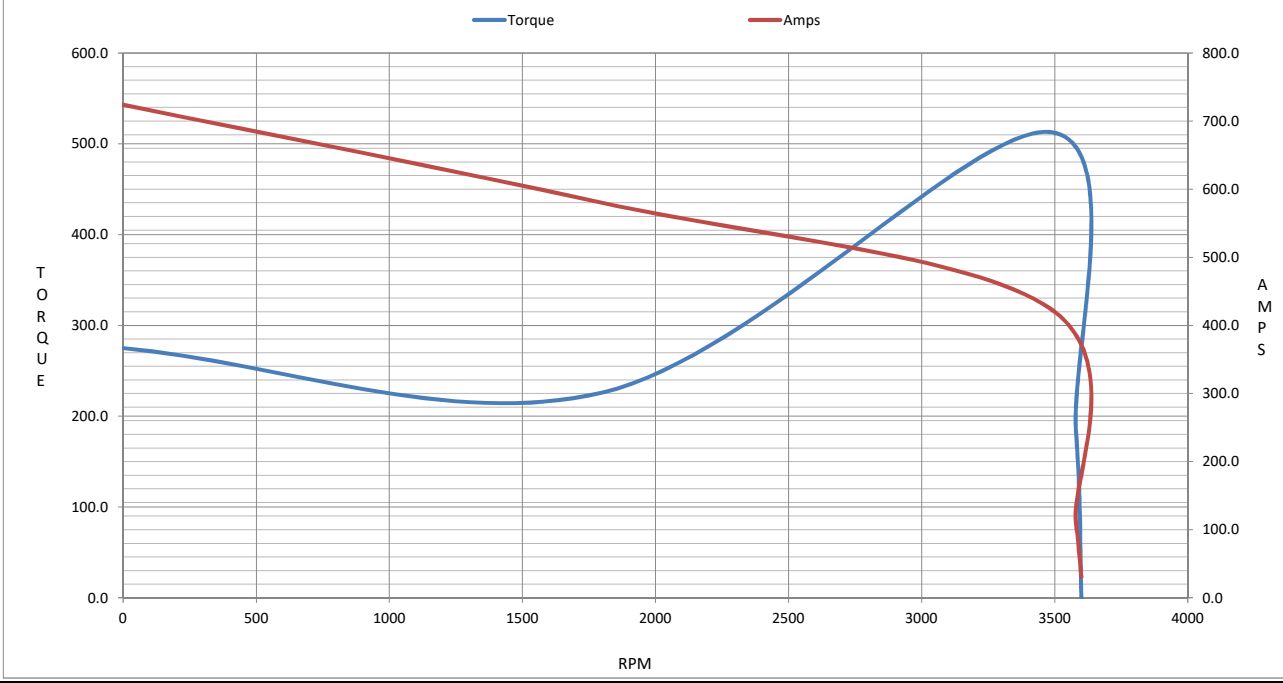
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0330	0.0170	0.2520	0.2910	10.7120

Speed -Torque Curve



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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: HE32802009 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 444TSTFCD16002
CAT #: GT1148A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	3600	3580	444TS	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	110	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	94.5	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE
F.L. PF	89.5	3/4 LD PF	87.5	1/2 LD PF	81.5	94.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
183 LB-FT	724	275 LB-FT 150%	513 LB-FT 280%	60	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
87 dBA	96 dBA	31.0 LB-FT²	75 LB-FT²	15 SEC.	2	2200 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 (ENAMEL)

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
0.033	0.017	0.252	0.291	10.712	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