marathon®

General Purpose Motors

Model No: 182TTTCD6101
Catalog No: GT10102

General Purpose Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 RPM, 182T Frame, TENV

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Product Information Packet: Model No: 182TTTCD6101, Catalog No: GT10102 General Purpose Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 RPM, 182T Frame, TENV

Nameplate Specifications

Phase	**3**	Output HP	**1.50 & 1 Hp**
Output KW	**1.1 & 0.75 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1175 & 985 r/min**	Synchronous RPM	**1200 & 1000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**182T**
Enclosure	**Totally Enclosed Non Ventilated**	Thermal Protection	**No Protection**
Efficiency	**87.5 & 85.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**4.6/2.3 & 4.5/2.25 A**
Power Factor	**70**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**A**
KVA Code	**N**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

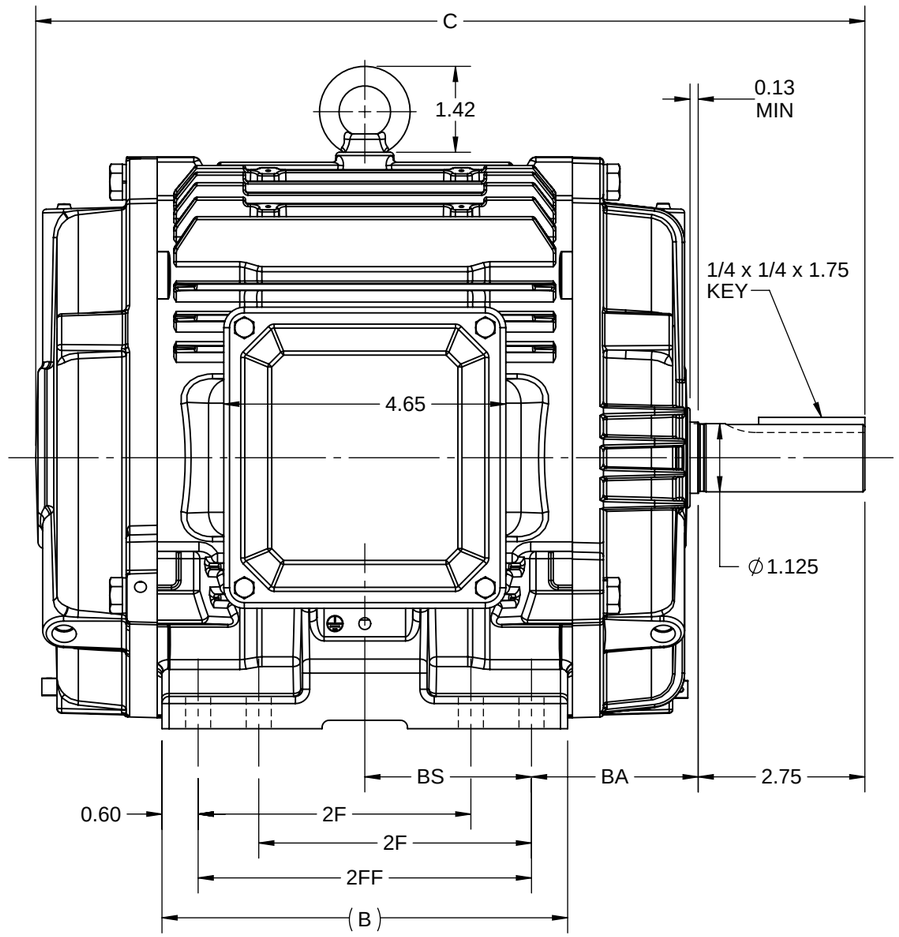
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**6.995 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**1.125 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 10:1/Variable 10:1**

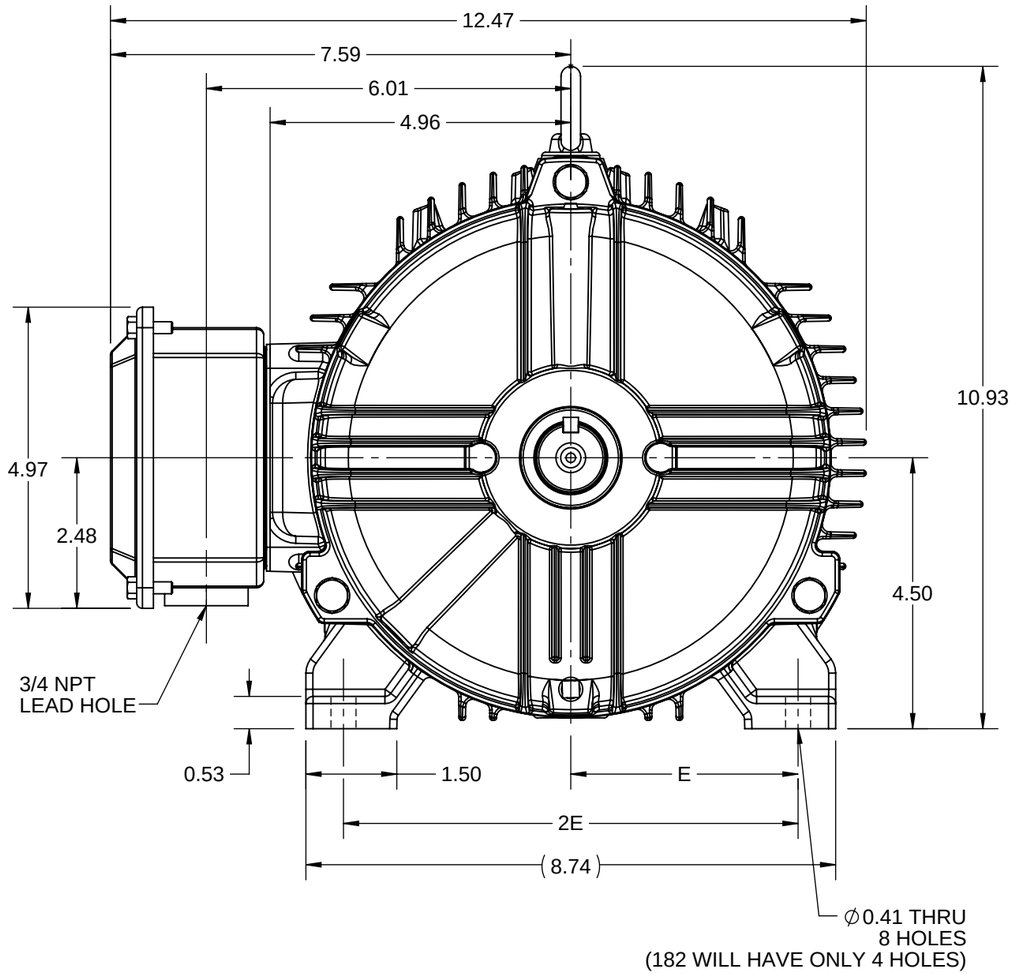
Drawings

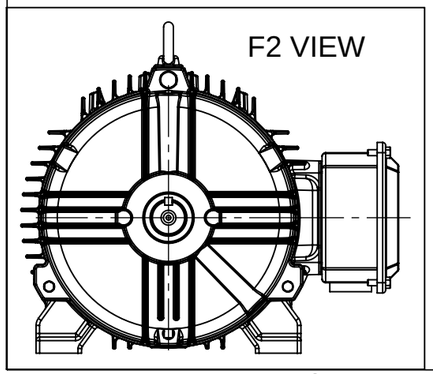
Connection Drawing	**EE7308**	Outline Drawing	**SS621164-100**

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DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	5.67	12.68	3.75	7.50	-	4.50	2.75	2.35	F1 OR F2	182T
200	6.69	13.68			4.50	5.50		2.75		182/184T







DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	05/18/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026308	RMS	05/18/2026

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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PRIMARY DIMENSIONS ARE INCH
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ARE FOR REFERENCE ONLY

DRAWN BY	DESCRIPTION
VS	OUTLINE
DATE	NEMA 182/184T FR-TEAO/TENV
29-04-2021	
APPROVED BY	
GNK	
DATE	
29-04-2021	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS621164 / SHEET 1 OF 1

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Uncontrolled Copy

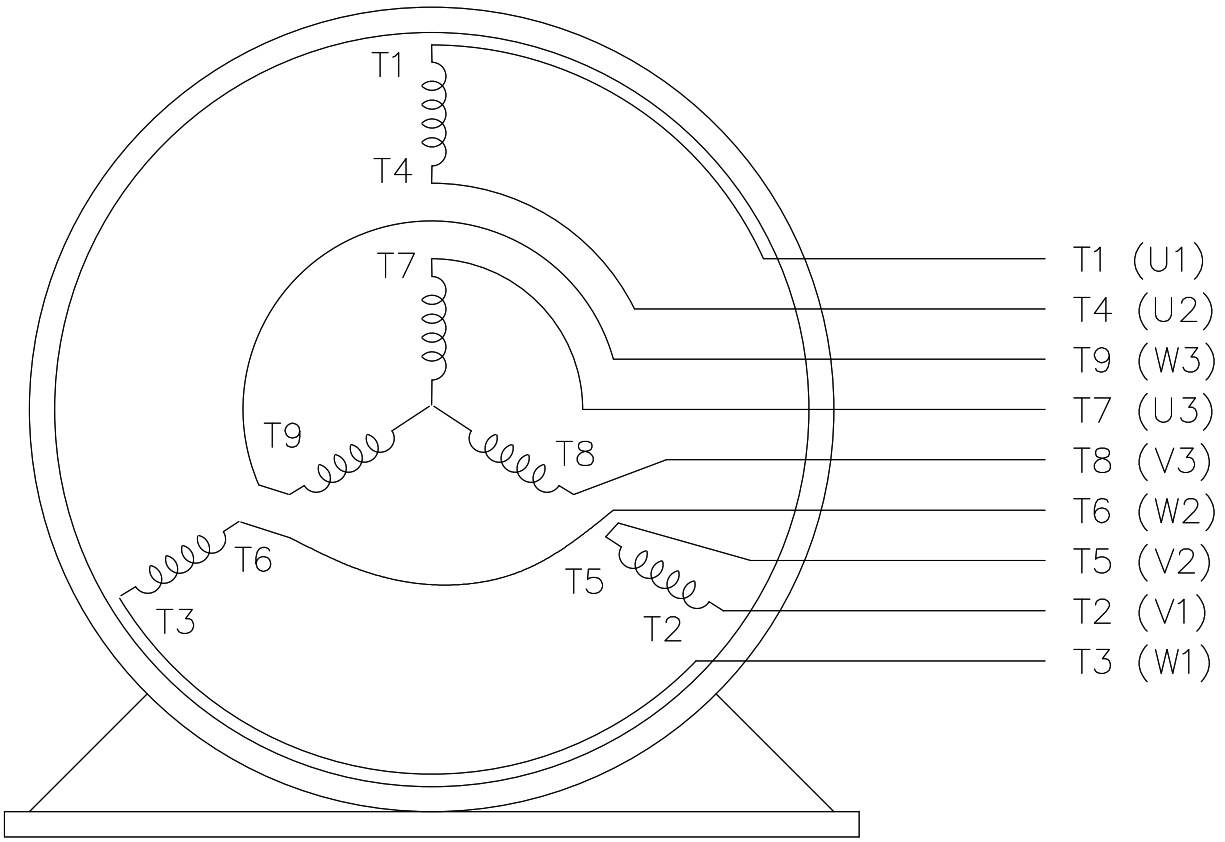
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

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

REQUEST NUMBER DESCRIPTION
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DRAWN BY	RM
DATE	11/20/1990
APPROVED BY	SAS
DATE	04/24/2003
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 6 EE7308	1 OF 1

Data Sheet

Date: 9/16/2021
Customer:
Attention:
Submitted by:

marathon® Motors

182TTTCD6101

Submittal

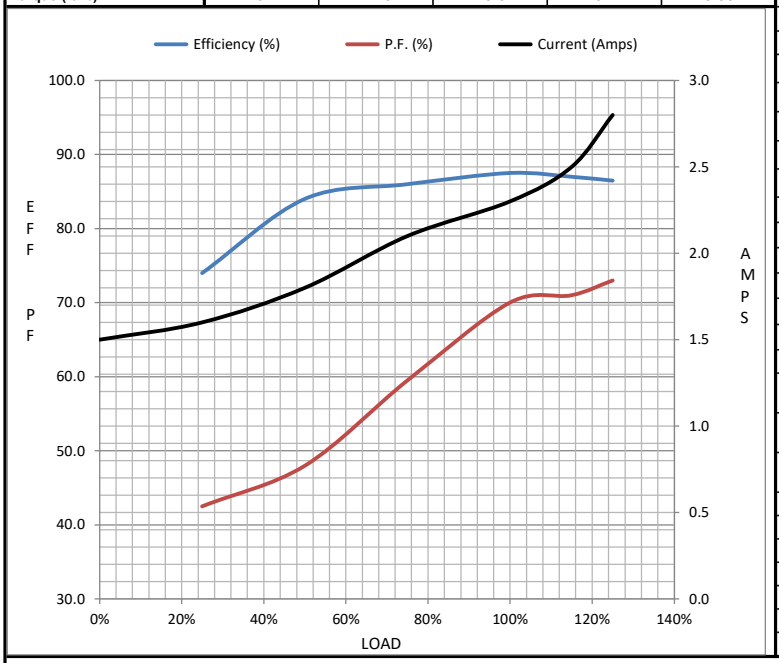
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.50	1.60	1.80	2.10	2.30	2.50	2.80	21.0	
Torque (ft-lb)	0.00	1.70	3.4	5.0	6.7	7.7	8.4	16.2	
RPM	1200	1195	1188	1184	1175	1,170	1165	0	
Efficiency (%)		74.0	84.0	86.0	87.5	87.0	86.5		
P.F. (%)	7.0	42.5	48.0	59.5	70.0	71.0	73.0	47.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	300	985	1175	1200
Current (Amps)	21.0	17.0	12.0	2.30	1.50
Torque (ft-lb)	16.2	12.0	25.5	6.7	0.00



Information Block

HP	1.5	
Sync. RPM	1200	
Frame	182	
Enclosure	TENV	
Construction	TTC	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	A	
LR Code letter	N	
Service Factor	1.15	
Temp Rise @ FL	50	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	0.09	Lb-Ft²
Ref Wdg	HA31126013 R2	
Sound Pressure @ 1M	55	dBA
VFD Rating	CONSTANT 10:1/VARIABLE 10:1	
Outline Dwg	SS621164-100	
Conn. Diag	EE7308	

Additional Specifications:

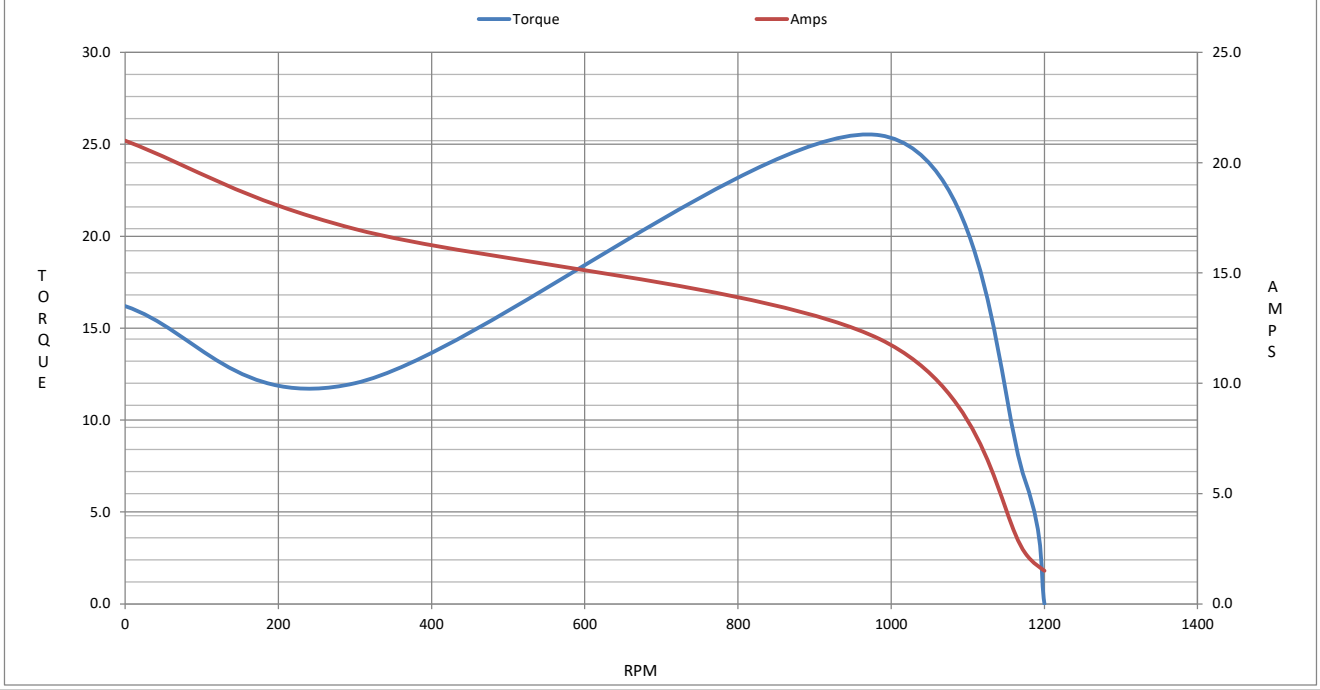
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
4.3470	2.8350	10.9620	12.8520	171.0450

Speed -Torque Curve



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

marathon® Motors

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308
OUTLINE: SS621164-100
WINDING: HA31126013 R2 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 182TTTCD6101
CAT #: GT10102
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	1200	1175	182T	TENV	TTC	N	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	4.6/2.3&4.5/2.25	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	86.0	1/2 LD EFF	84.0	GTD EFF	ELECT. TYPE
F.L. PF	70.0	3/4 LD PF	59.5	1/2 LD PF	48.0	86.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
6.7 LB-FT	21.0	16.2 LB-FT 242%	25.5 LB-FT 381%	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
55 dBA	64 dBA	0.09 LB-FT²	32 LB-FT²	15 SEC.	2	92 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	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6206	6205						

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
4.347	2.835	10.962	12.852	171.045	0.150	ODE

* NOTES *

INVERTER TORQUE: CONSTANT 10:1/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:
DATE: 9/16/2021

FORM: 3531 REV_4 2/27/06

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