marathon®

General Purpose Motors

Model No: 182TTFCD6101
Catalog No: GT10101

General Purpose Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 182T Frame, TEFC

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Product Information Packet: Model No: 182TTFCD6101, Catalog No: GT10101 General Purpose Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 182T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**1 Hp**
Output KW	**0.75 kW**	Voltage	**230/460 V**
Speed	**875 r/min**	Synchronous RPM	**900 r/min**
Service Factor	**1.15**	Frame	**182T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**75.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**4.0/2.0 A**
Power Factor	**61.2**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**M**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

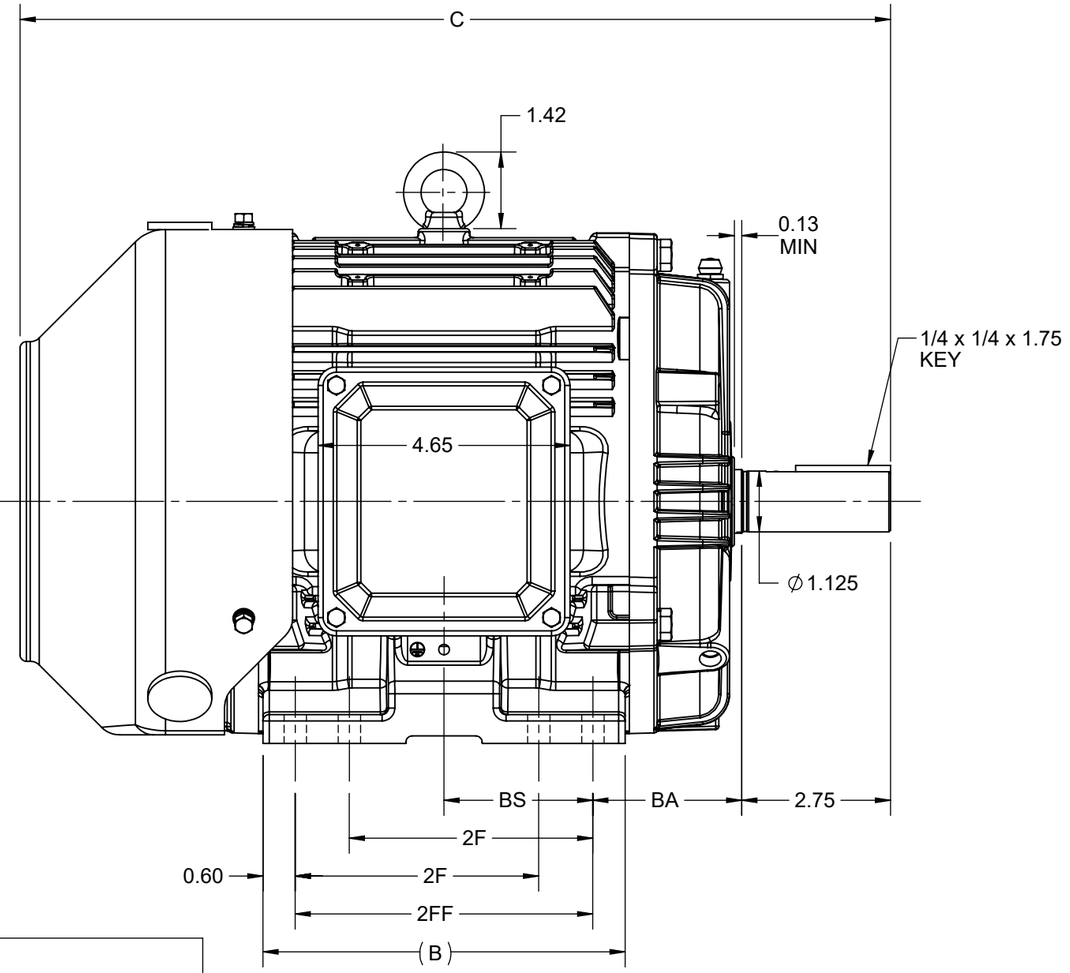
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**8**	Rotation	**Reversible**
Resistance Main	**17.0269 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**1.125 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 10:1/Variable 10:1**

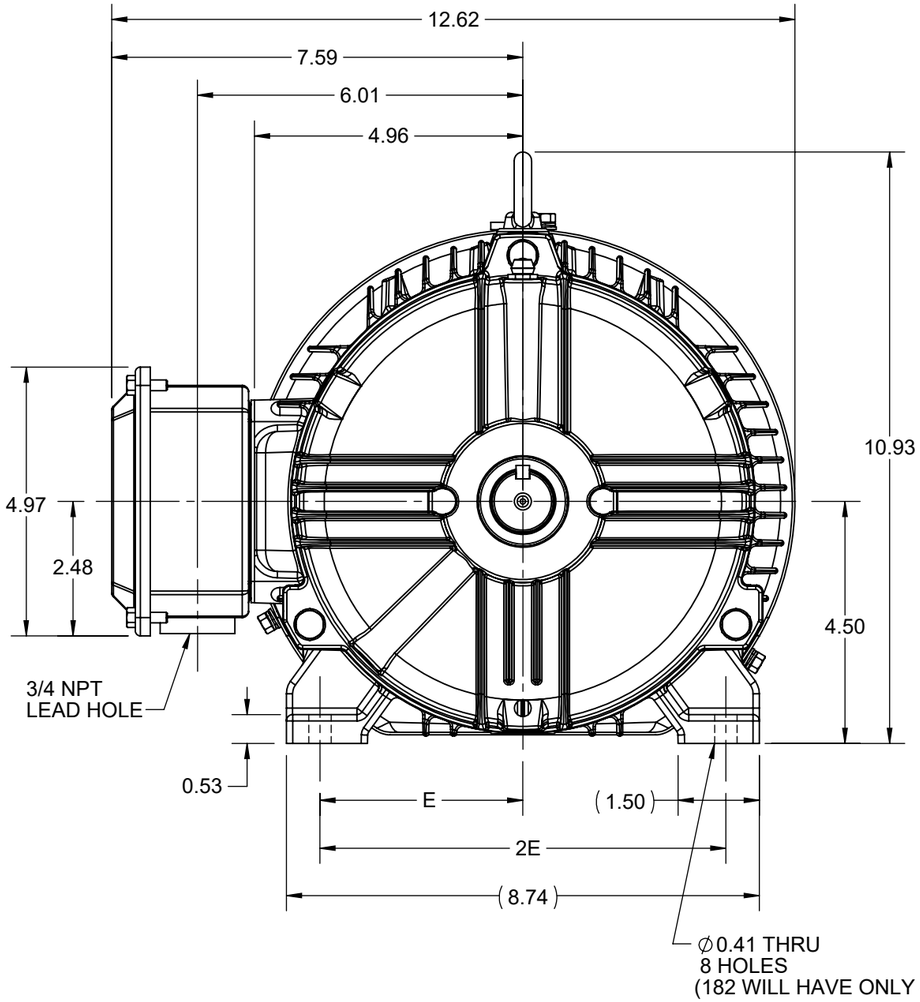
Drawings

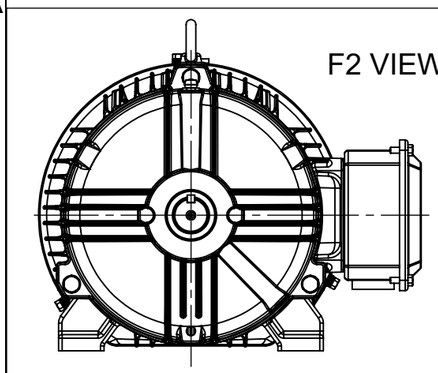
Connection Drawing	**EE7308**	Outline Drawing	**SS620855-100**

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DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	5.67	15.08	3.75	7.50	-	4.50	2.75	2.35	F1 OR F2	182T
200	6.69	16.08			4.50	5.50		2.75		182/184T







DRAWING REVISION: C	REVISION BY: SB	REV DATE/© DATE: 08/08/2025
REQUEST NUMBER: CR-0023556	APPROVED BY: SBD	DATE: 08/08/2025
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: WZ	marathon™	
DATE: 08/11/2017	DESCRIPTION: OUTLINE 182/184T FR-NEMA TEFC CAST IRON	
APPROVED BY: WY		
DATE: 08/11/2017		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS620855	SHEET: 1 OF 1

Uncontrolled Copy

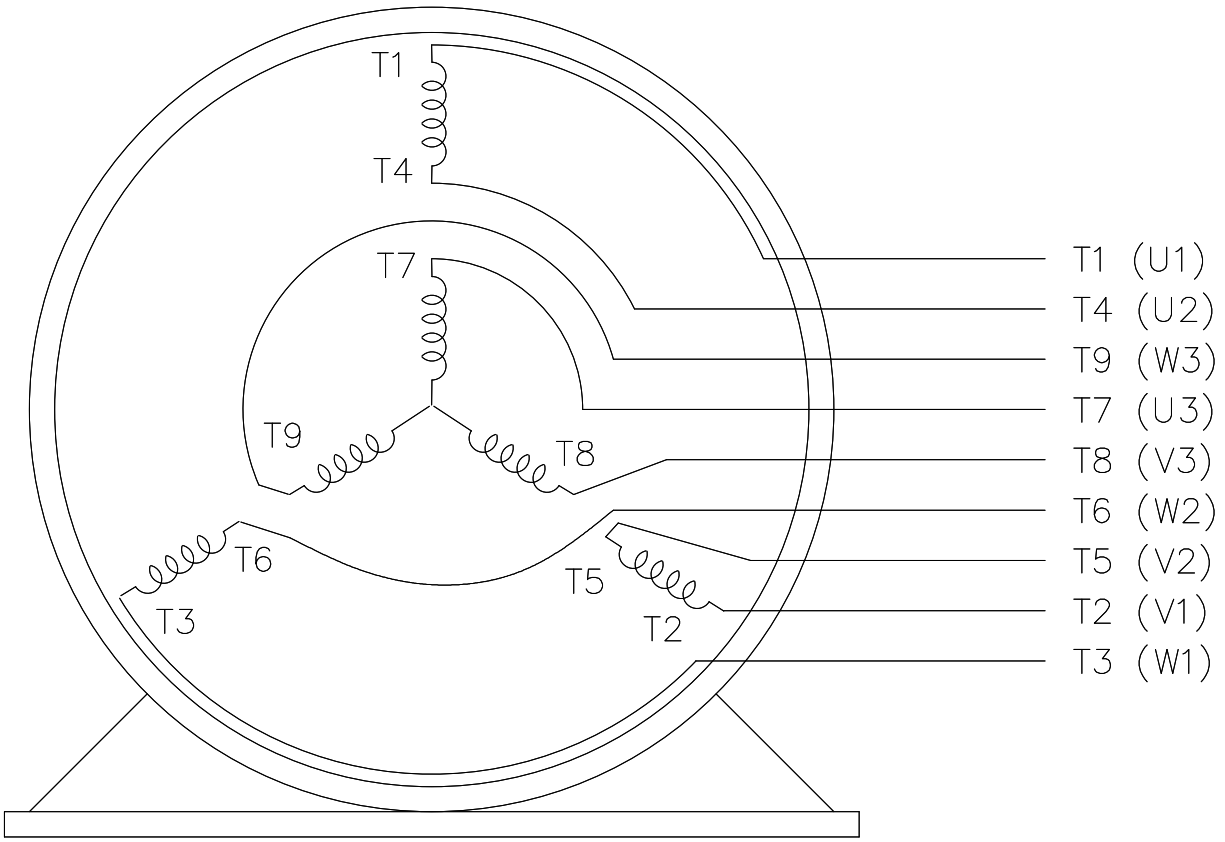
THREE PHASE
DUAL VOLTAGE MOTOR

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
DRAWING TITLE BLOCK UPDATED

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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: 11/17/2021
Customer:
Attention:
Submitted by:

marathon® Motors

182TTFCD6101

Submittal

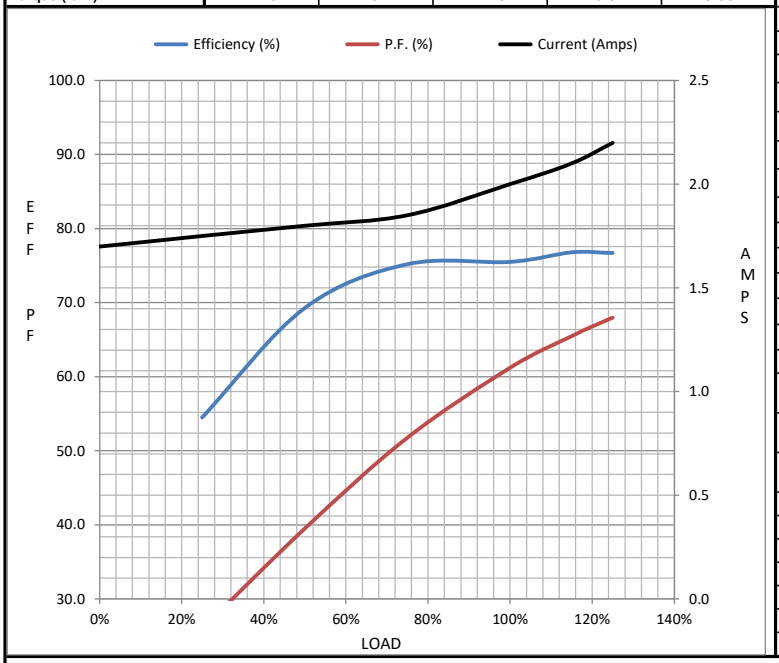
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.70	1.75	1.80	1.85	2.00	2.10	2.20	12.8	
Torque (ft-lb)	0.00	1.48	2.98	4.5	6.0	7.0	7.6	12.0	
RPM	900	895	885	880	875	865	865	0	
Efficiency (%)		54.5	69.3	75.2	75.5	76.8	76.7		
P.F. (%)	11.8	26.0	39.5	51.8	61.2	65.5	68.0	55.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	690	875	900
Current (Amps)	12.8	10.2	6.2	2.00	1.70
Torque (ft-lb)	12.0	10.1	17.0	6.0	0.00



Information Block

HP	1.0	
Sync. RPM	900	
Frame	182	
Enclosure	TEFC	
Construction	TFB	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	M	
Service Factor	1.15	
Temp Rise @ FL	35	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	0.26	Lb-Ft²
Ref Wdg	HA31128001 NONE	
Sound Pressure @ 1M	59	dBA
VFD Rating	CONSTANT 10:1/VARIABLE 10:1	
Outline Dwg	SS620855-100	
Conn. Diag	EE7308	

Additional Specifications:

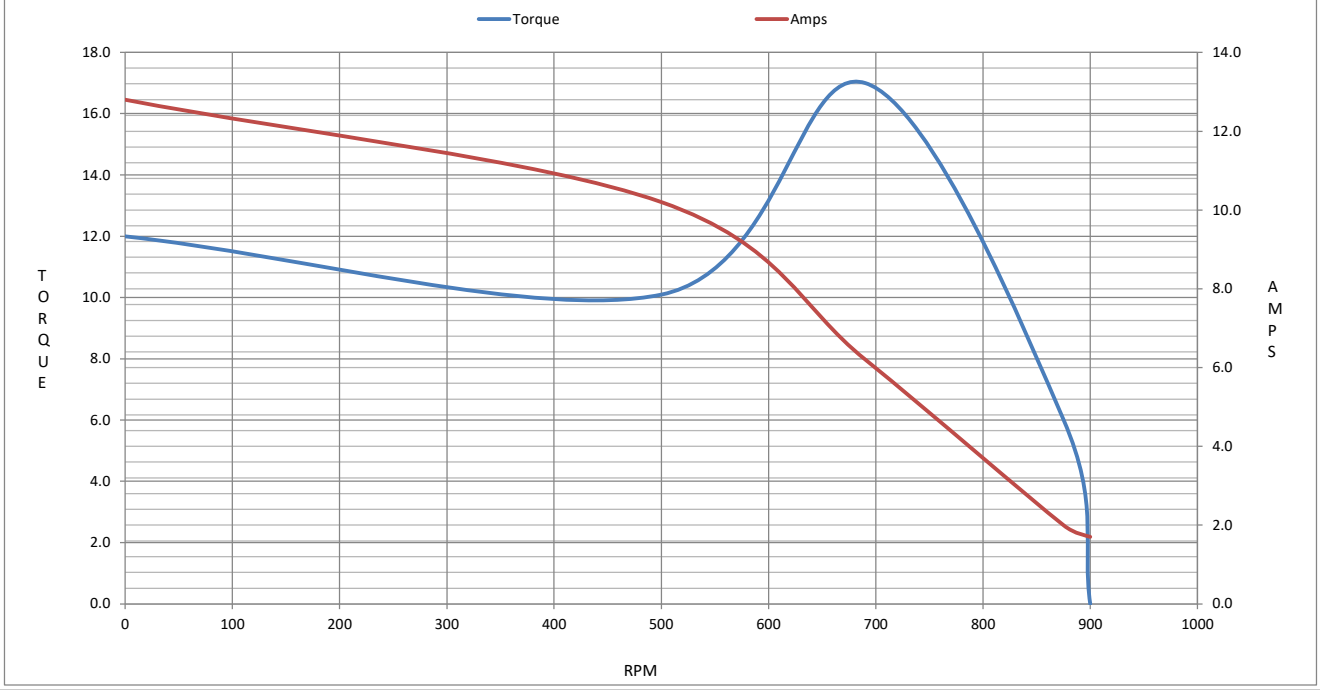
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
10.8070	5.8150	11.7150	11.3740	164.4860

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: SS620855-100
WINDING: HA31128001 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 182TTFCD6101
CAT #: GT10101
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	900	875	182T	TEFC	TFB	M	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	4/2	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	75.5	3/4 LD EFF	75.2	1/2 LD EFF	69.3	GTD EFF	ELECT. TYPE
F.L. PF	61.2	3/4 LD PF	51.8	1/2 LD PF	39.5	74.0	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
6.0 LB-FT	12.8	12.0 LB-FT 200%	17.0 LB-FT 283%	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
59 dBA	68 dBA	0.26 LB-FT²	31 LB-FT²	20 SEC.	2	76 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	NONE	YES	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
10.807	5.815	11.715	11.374	164.486	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: 11/17/2021

UL: V - LI,ME-INS,CONST UL REC

FORM: 3531 REV_4 2/27/06