marathon®

General Purpose Motors

Model No: 445TSTDCD6028
Catalog No: GT0290

General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 445TSC Frame, DP

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Product Information Packet: Model No: 445TSTDCD6028, Catalog No: GT0290 General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 445TSC Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**200 & 150 Hp**
Output KW	**149.0 & 112.0 kW**	Voltage	**460 & 380 V**
Speed	**1790 & 1490 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**445TSC**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**95.8 & 95.8 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**223 & 203 A**
Power Factor	**87.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6319**
Opp Drive End Bearing Size	**6317**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

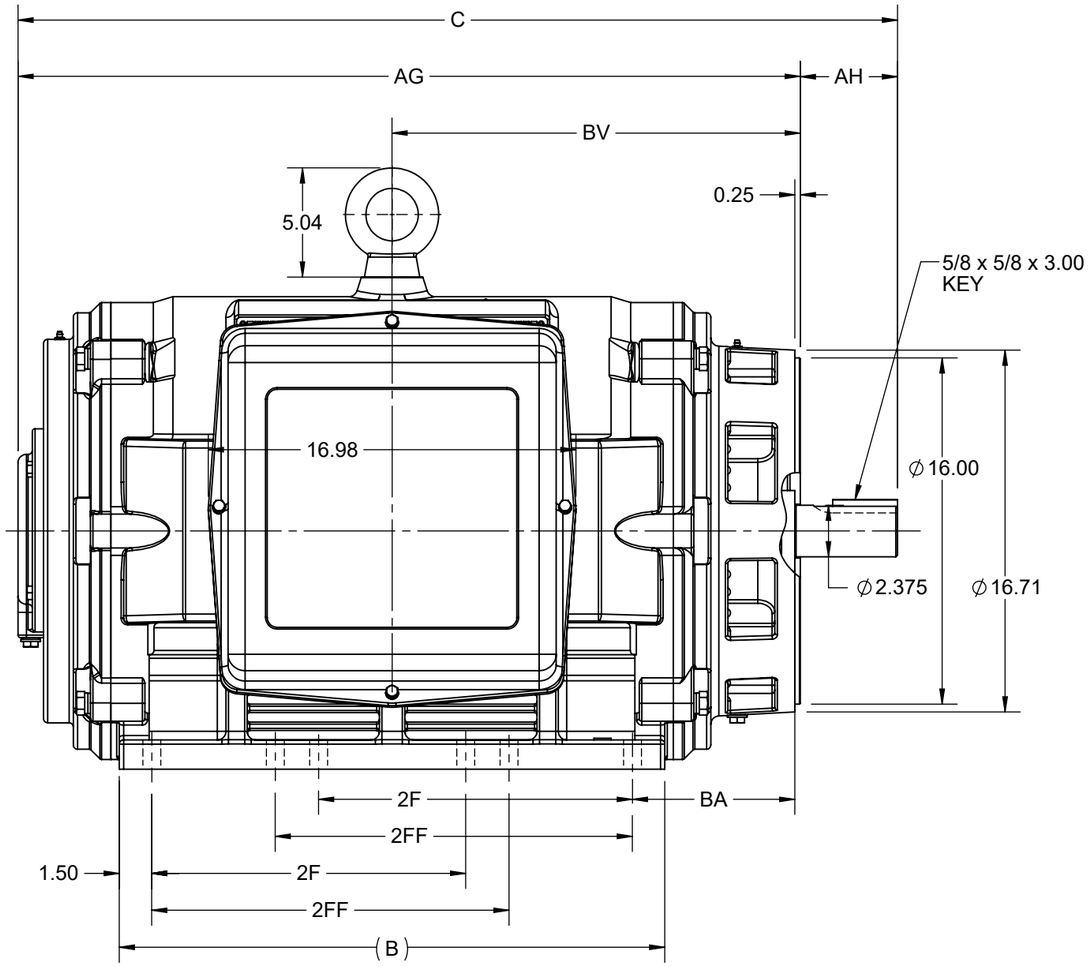
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.019 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Shaft Diameter	**2.375 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Variable 10:1**

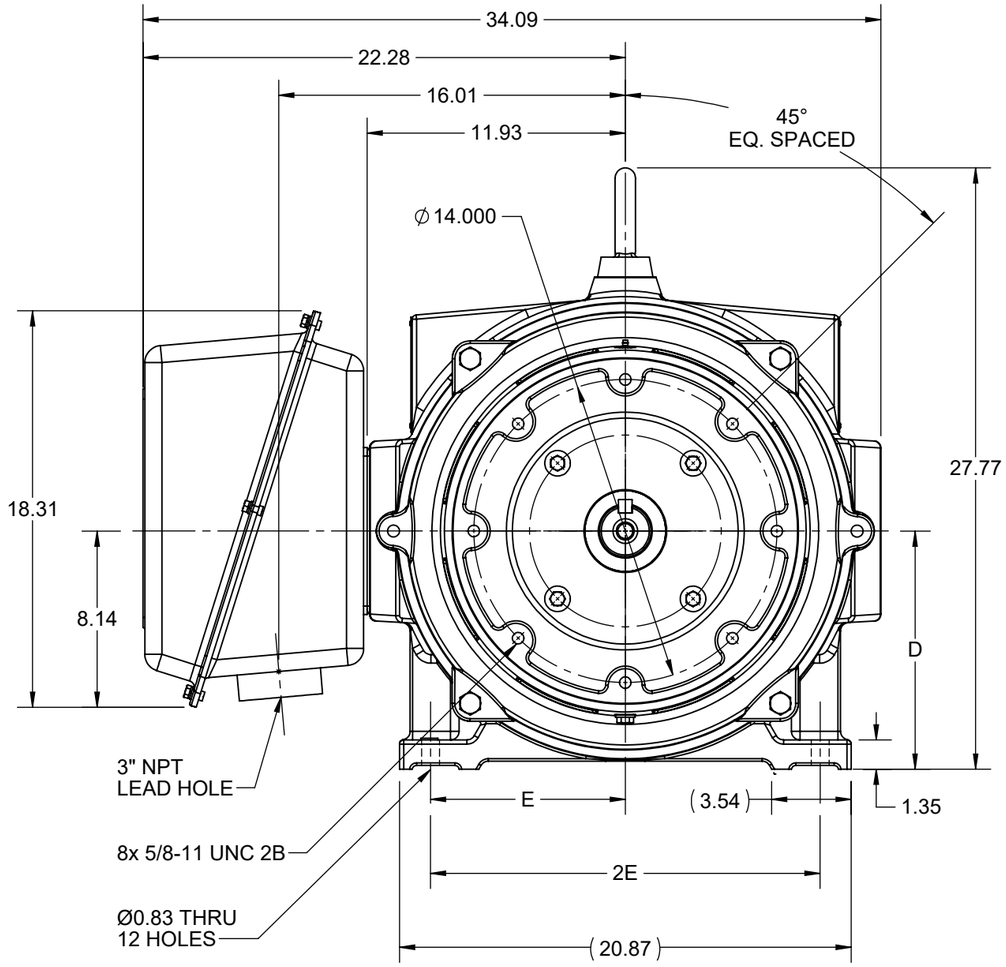
Drawings

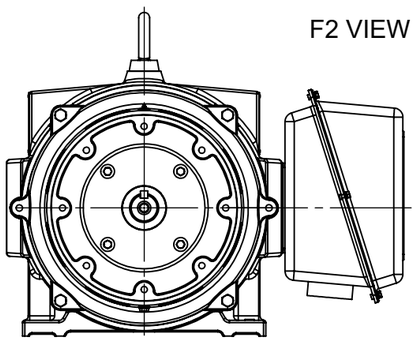
Connection Drawing	**EE7341C**	Outline Drawing	**SS621127-100**

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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	25.20	40.64	11.00	9.00	18.00	14.50	16.50	36.14	4.50	7.50	18.85	F1 OR F2	444/445TSC
200	30.31	45.76				20.00	25.00	41.26			21.41		447/449TSC







DRAWING REVISION	REVISION BY	REV DATE/© DATE
C	SB	07/31/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	07/31/2025

REQUEST NUMBER DESCRIPTION
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DRAWN BY	VS
DATE	22/01/2021
APPROVED BY	GNK
DATE	22/01/2021
REFERENCE	SS620757
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
OUTLINE
444/445TSC FR NEMA ODP CAST IRON

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS621127	1 OF 1

Uncontrolled Copy

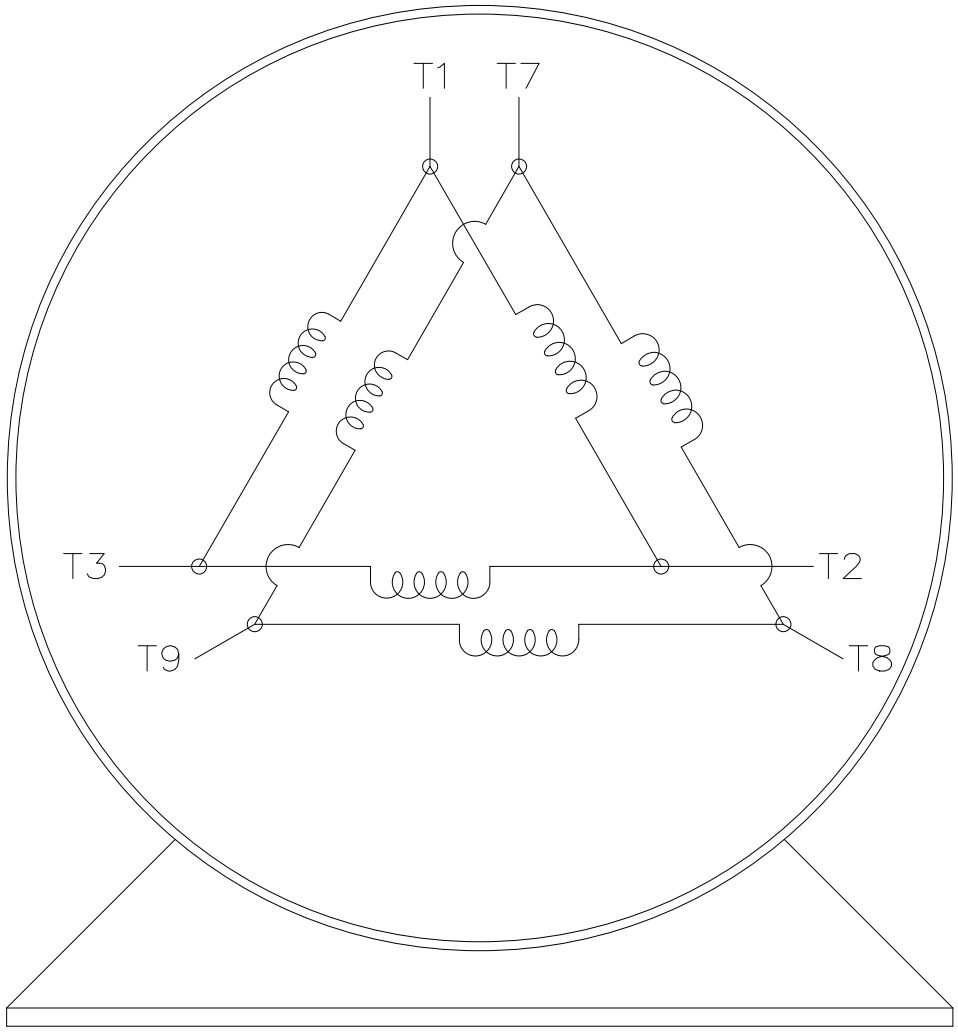
THREE PHASE – PART WINDING START
DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

RUN

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



VIEW OF TERMINAL END

IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7–T8,T8–T9,T9 OPEN

RUN

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

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

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DATE	03/09/1998
APPROVED BY	GK
DATE	03/23/1998
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø – 6 LEADS

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7341C	1 OF 1

Data Sheet

Date: 8/30/2021
Customer:
Attention:
Submitted by:

marathon® Motors

445TSTDCD6028

Submittal

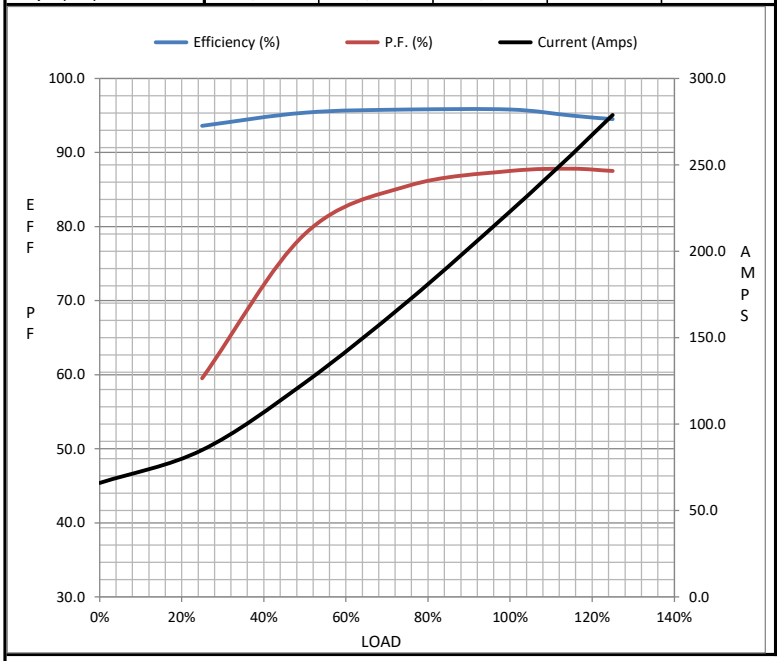
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	66.0	85.0	124	171	223	256	279	1,440	
Torque (ft-lb)	0.00	146	293	440	588	677	737	1,400	
RPM	1800	1798	1796	1792	1790	1,786	1784	0	
Efficiency (%)		93.6	95.4	95.8	95.8	95.0	94.5		
P.F. (%)	5.5	59.5	79.0	85.5	87.5	87.8	87.5	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1750	1790	1800
Current (Amps)	1,440	1,145	980	223	66.0
Torque (ft-lb)	1,400	1,025	1,700	588	0.00



Information Block

HP	200.0	
Sync. RPM	1800	
Frame	445	
Enclosure	DP	
Construction	TDC	
Voltage	460#380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	40	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	88.0	Lb-Ft²
Ref Wdg	HA32804016 NONE	
Sound Pressure @ 1M	84	dBA
VFD Rating	VARIABLE 10:1	
Outline Dwg	SS621127	
Conn. Diag	EE7341C	

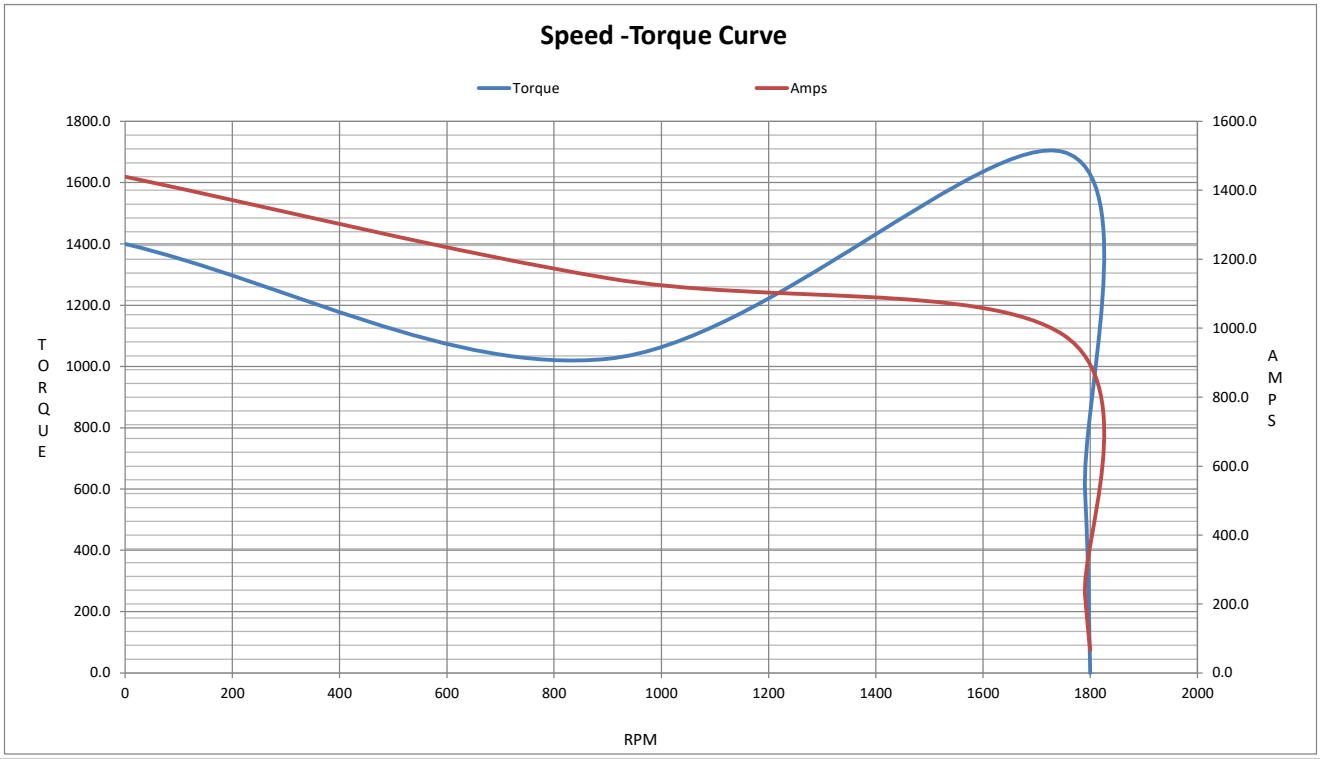
Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0110	0.0070	0.0850	0.1850	4.0330



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

marathon® Motors

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7341C
OUTLINE: SS621127
WINDING: HA32804016 NONE 1
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 445TSTDCD6028
CAT #: GT0290
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1800	1790	445TSC	DP	TDC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	223&203	PWS OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE
F.L. PF	87.5	3/4 LD PF	85.5	1/2 LD PF	79.0	95.4	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
588 LB-FT	1,440	1,400 LB-FT 238%	1,700 LB-FT 289%	40	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
84 dBA	93 dBA	88.0 LB-FT²	1000 LB-FT²	20 SEC.	2	2200	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	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	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6317						

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
0.011	0.007	0.085	0.185	4.033	0.150	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:**
UL: V - LI,ME-INS,CONST UL REC

PREPARED BY:
DATE: 8/30/2021

FORM: 3531 REV_4 2/27/06