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Severe Duty Motors

Model No: 182THTCD9001
Catalog No: W517A

Severe Duty Motor, 3 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 182T Frame, TENV

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Product Information Packet: Model No: 182THTCD9001, Catalog No: W517A Severe Duty Motor, 3 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 182T Frame, TENV

Nameplate Specifications

Phase	**3**	Output HP	**3 Hp**
Output KW	**2.2 kW**	Voltage	**460 V**
Speed	**3527 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**182T**
Enclosure	**Totally Enclosed Non Ventilated**	Thermal Protection	**No Protection**
Efficiency	**89.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**3.5 A**
Power Factor	**89**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**B**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**56**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

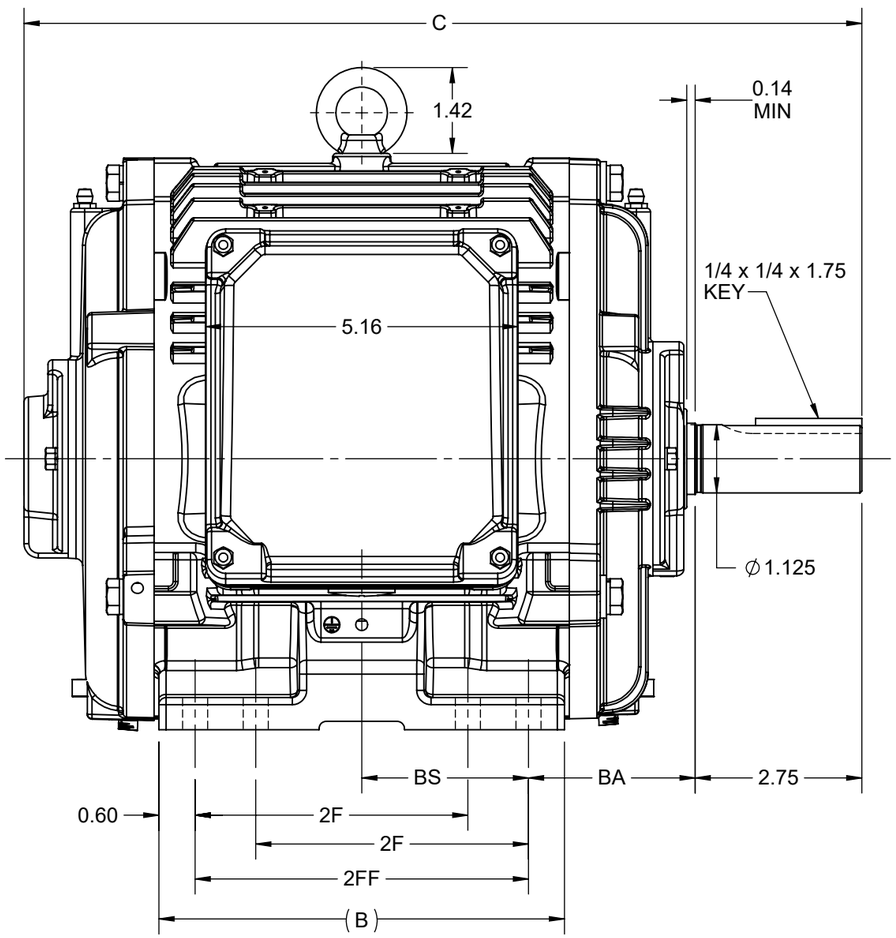
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**4.49 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**1.125 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

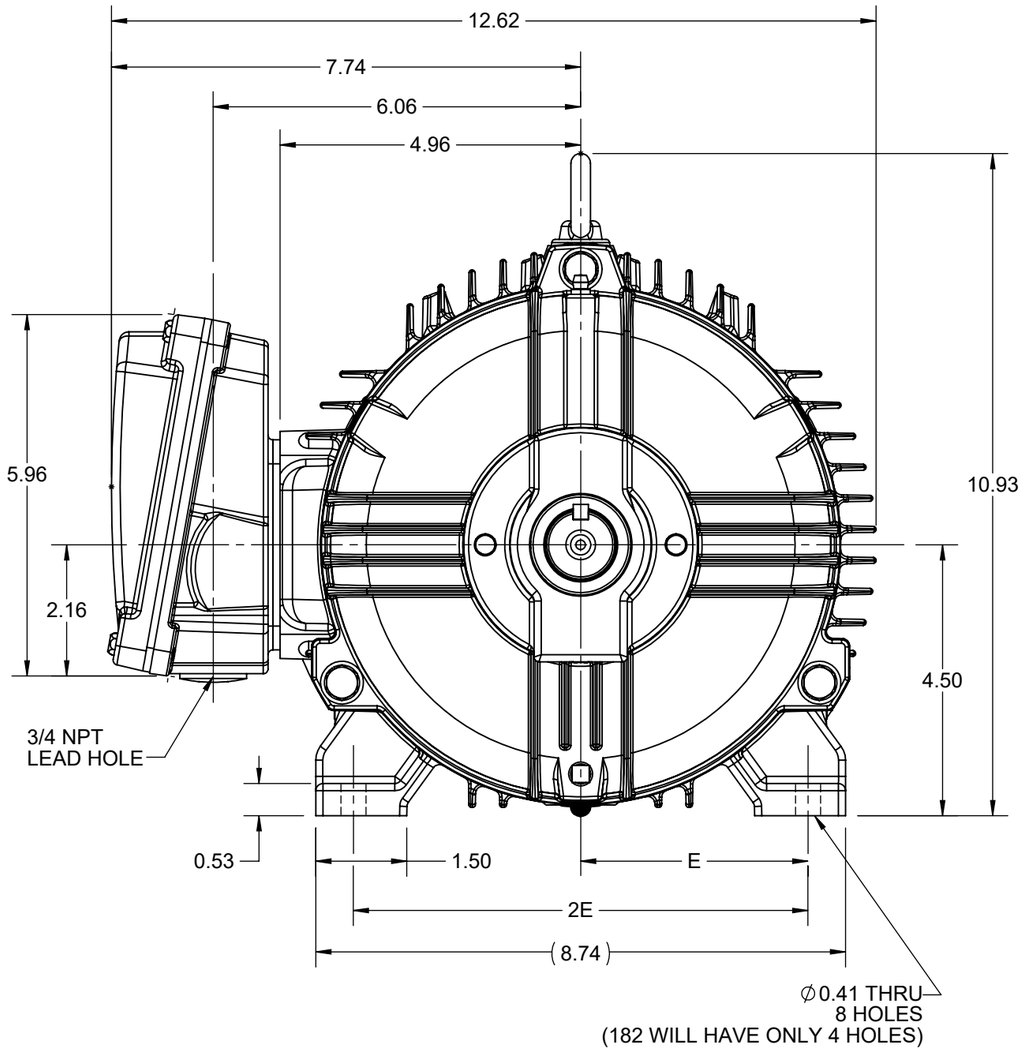
Drawings

Connection Drawing	**EE7300**	Outline Drawing	**SS600211-200**

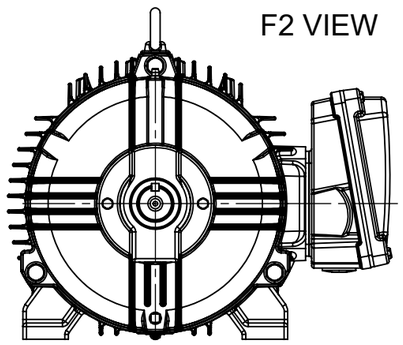
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DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	5.67	12.82	3.75	7.50	-	4.50	2.75	2.35	F1 OR F2	182T
200	6.69	13.82			4.50	5.50		2.75	F1 OR F2	182/184T





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
C	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	08/01/2025

REQUEST NUMBER DESCRIPTION
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DATE	06/10/2020
APPROVED BY	SBD
DATE	06/10/2020
REFERENCE	

THIRD ANGLE PROJECTION

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DESCRIPTION
OUTLINE
182/184T FR-NEMA-TEAO/TENV

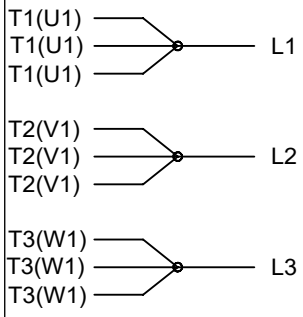
MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS600211	1 OF 1

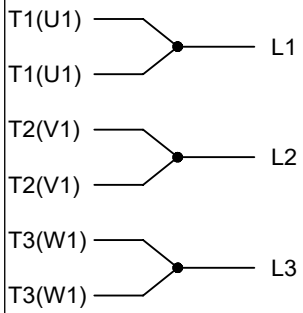
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

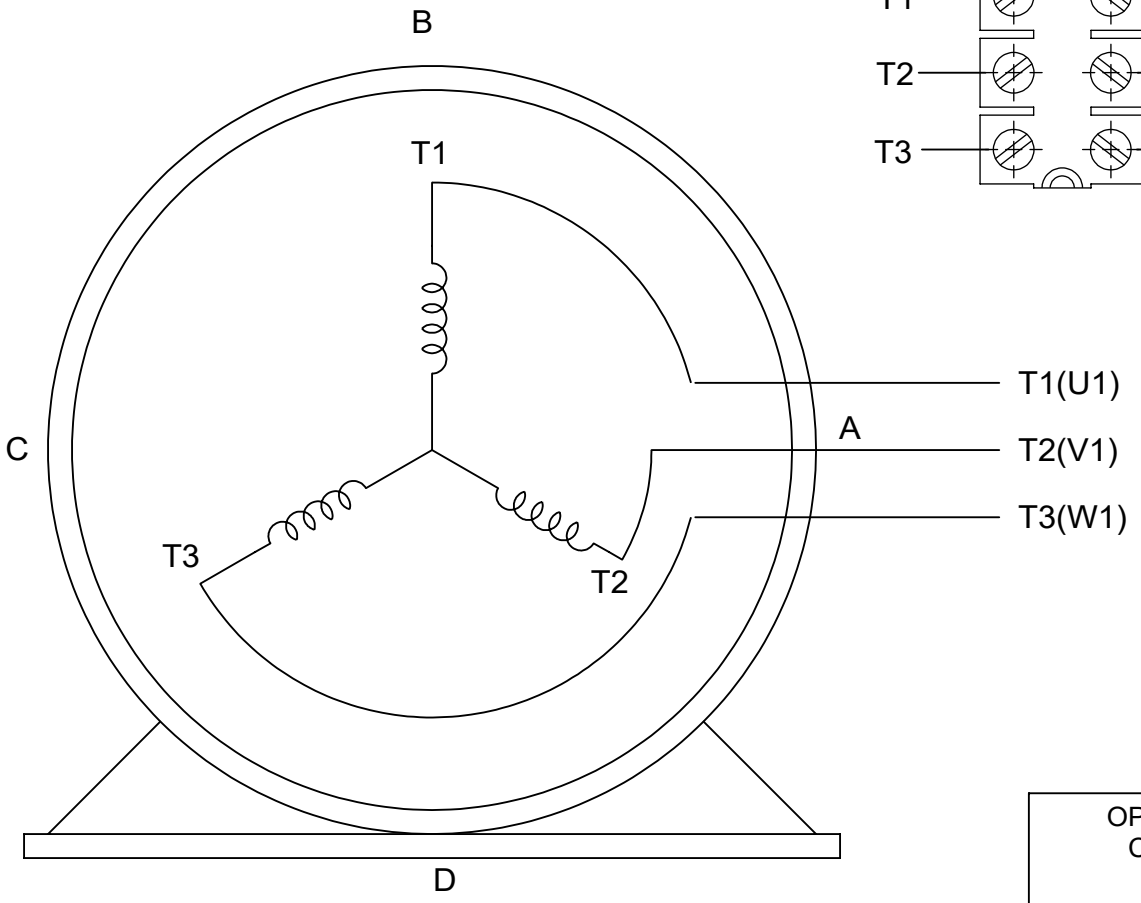
IF MOTOR HAS
9 LEADS



IF MOTOR HAS
6 LEADS



A-9806 DECAL



VIEW OF TERMINAL END

TERMINAL BLOCK WHEN SPECIFIED

OPTIONAL CORD
CONNECTION

L1	WHITE
L2	RED
L3	BLACK

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

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DATE: 03-26-1993	
APPROVED BY: TB	
DATE: 03-26-1993	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

Data Sheet

Date: 6/3/2020
Customer:
Attention:
Submitted by:

marathon® Motors

182THTCD9001

Submittal

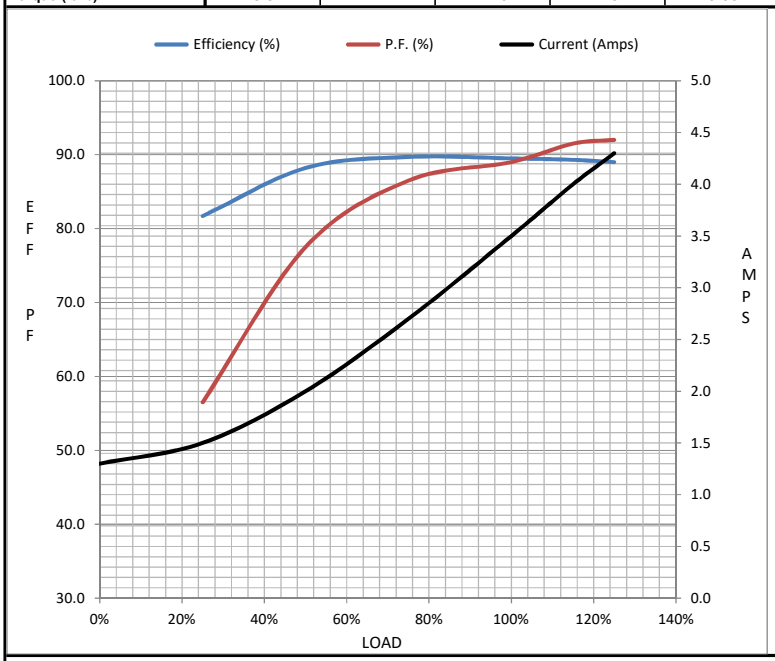
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.30	1.50	2.00	2.70	3.5	4.0	4.3	32.7	
Torque (ft-lb)	0.00	1.10	2.21	3.3	4.5	5.2	5.6	8.8	
RPM	3600	3581	3564	3546	3527	3,515	3507	0	
Efficiency (%)		81.7	88.2	89.7	89.5	89.3	89.0		
P.F. (%)	11.5	56.5	77.5	86.5	89.0	91.5	92.0	50.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2940	3527	3600
Current (Amps)	32.7	26.0	19.2	3.5	1.30
Torque (ft-lb)	8.8	7.4	14.9	4.5	0.00



Information Block

HP	3.0	
Sync. RPM	3600	
Frame	160L	
Enclosure	TENV	
Construction	TTC	
Voltage	460	V
Frequency	60	Hz
Design	N	
LR Code letter	K	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	0.21	Lb-Ft²
Ref Wdg	HA31122017 NONE	
Sound Pressure @ 1M	70	dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1	
Outline Dwg	037898-912	
Conn. Diag	EE7300	

Additional Specifications:

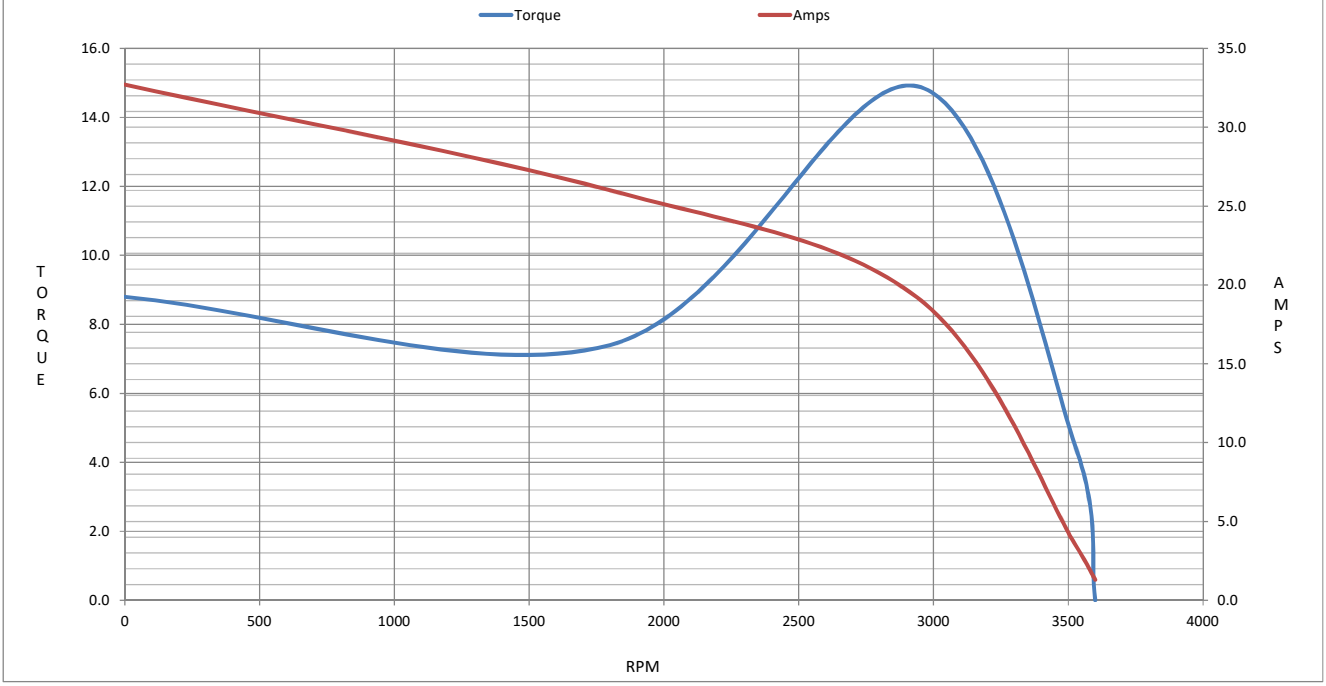
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.6380	1.5790	5.8710	2.5910	208.1020

Speed -Torque Curve



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DATA VOLTS: 460

CERTIFICATION DATA SHEET

REFERENCE MODEL #: 182THTCD9001
CONN. DIAGRAM: EE7300 **CAT #:** W517A
OUTLINE: SS600211
WINDING: HA31122017 NONE 1 **MOUNTING:** F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	3600	3527	182T	TENV	TTC	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB(° C)	ELEV.(Ft)
3	60	460	3.5	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	89.7	1/2 LD EFF	88.2	GTD EFF	ELECT. TYPE	
F.L. PF	89.0	3/4 LD PF	86.5	1/2 LD PF	77.5	88.5	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
4.5 LB-FT	32.7	8.8 LB-FT 196%	14.9 LB-FT 331%	65	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
70 dBA	79 dBA	0.21 LB-FT²	5 LB-FT²	15 SEC.	2	100	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	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

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)	
2.638	1.579	5.871	2.591	208.102	0.080	

* NOTES *

If Inverter equals NONE, contact factory for further information
INVERTER TORQUE: CONSTANT 2:1/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: 6/3/2020

** Subject to change without notice.
FORM: 3531 REV_4 2/27/06