

General Purpose Motors

Model No: 213TBFW7001

Catalog No: I224

General Purpose Motor, 7.50 HP, 1 Ph, 60 Hz, 208-230 V, 3600 RPM, 213T Frame, TEFC

Product Information Packet: Model No: 213TBFW7001, Catalog No: I224 General Purpose Motor, 7.50 HP, 1 Ph, 60 Hz, 208-230 V, 3600 RPM, 213T Frame, TEFC

Nameplate Specifications

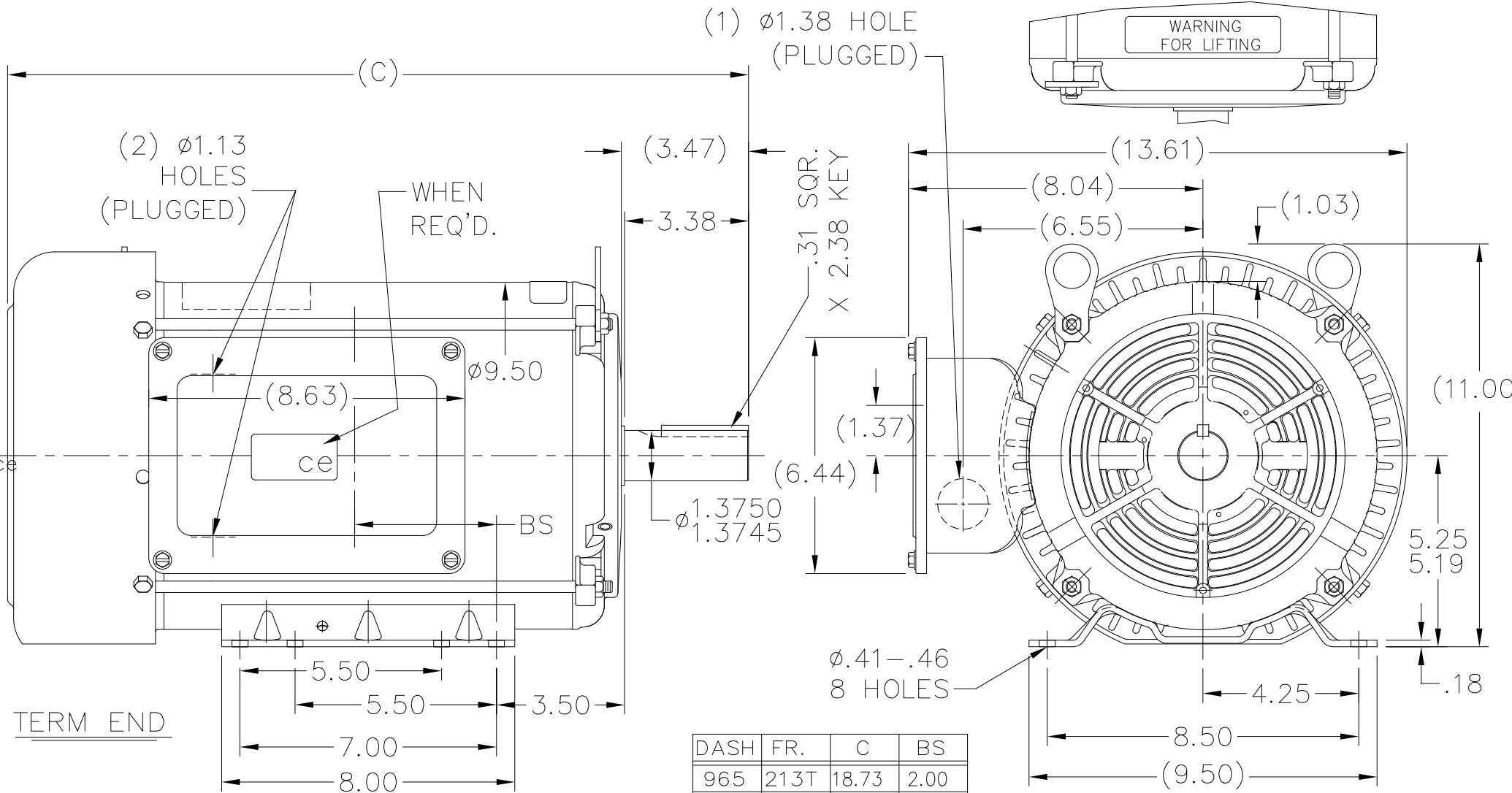
Phase	1	Output HP	7.50 Hp
Output KW	5.6 kW	Voltage	208-230 V
Speed	3465 r/min	Synchronous RPM	3600 r/min
Service Factor	1.00	Frame	213T
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	81.5 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	36.0-32.0 A
Power Factor	93.5	Duty	Continuous
Insulation Class	F	Design Code	L
KVA Code	G	Drive End Bearing Size	6307
Opp Drive End Bearing Size	6206	UL	Recognized
CSA	Y	CE	Y
IP Code	43	Number of Speeds	1

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	0 Ω	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	18.73 in
Frame Length	9.65 in	Shaft Diameter	1 3/8 in
Shaft Extension	3.47 in	Assembly/Box Mounting	F1 Only

Drawings

Connection Drawing	A-EE9048MF	Outline Drawing	037646-965
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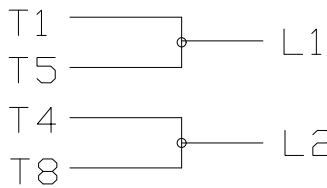


NOTES:
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.

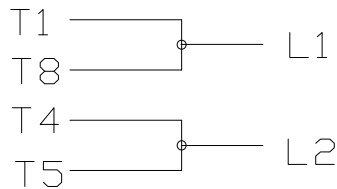
DASH	FR.	C	BS
965	213T	18.73	2.00
1115	213/215T	20.23	3.50
1240	215T	21.48	4.75

					TOLERANCES UNLESS SPECIFIED		DRAWN GRB 11/14/08
					DEC. INCHES		CHK SK 11/14/08
					.X $\pm .1$		APPD
					.XX $\pm .03$		SCALE 1=4
02	COND.BOX LEAD POSITION UPDATED—CR—0017070	SR 10/5/2023			.XXX $\pm .005$	TITLE OUTLINE 210T FR. TEFC — STD 1 ϕ	REF SS86677
01	ADD CE DECAL PER ISAAC 11—0604	LST 2/11/11			.XXXX $\pm .0005$		FMF
NO.	REVISION	BY & DATE	CHK	ANG	$\pm 7'30''$	FINISH	PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE THIS PRINT				RFP	CAD FILE 037646	SIZE A	DRAWING NO. 037646
				DIST LB			PAGE 1 OF 1
							REV. 02

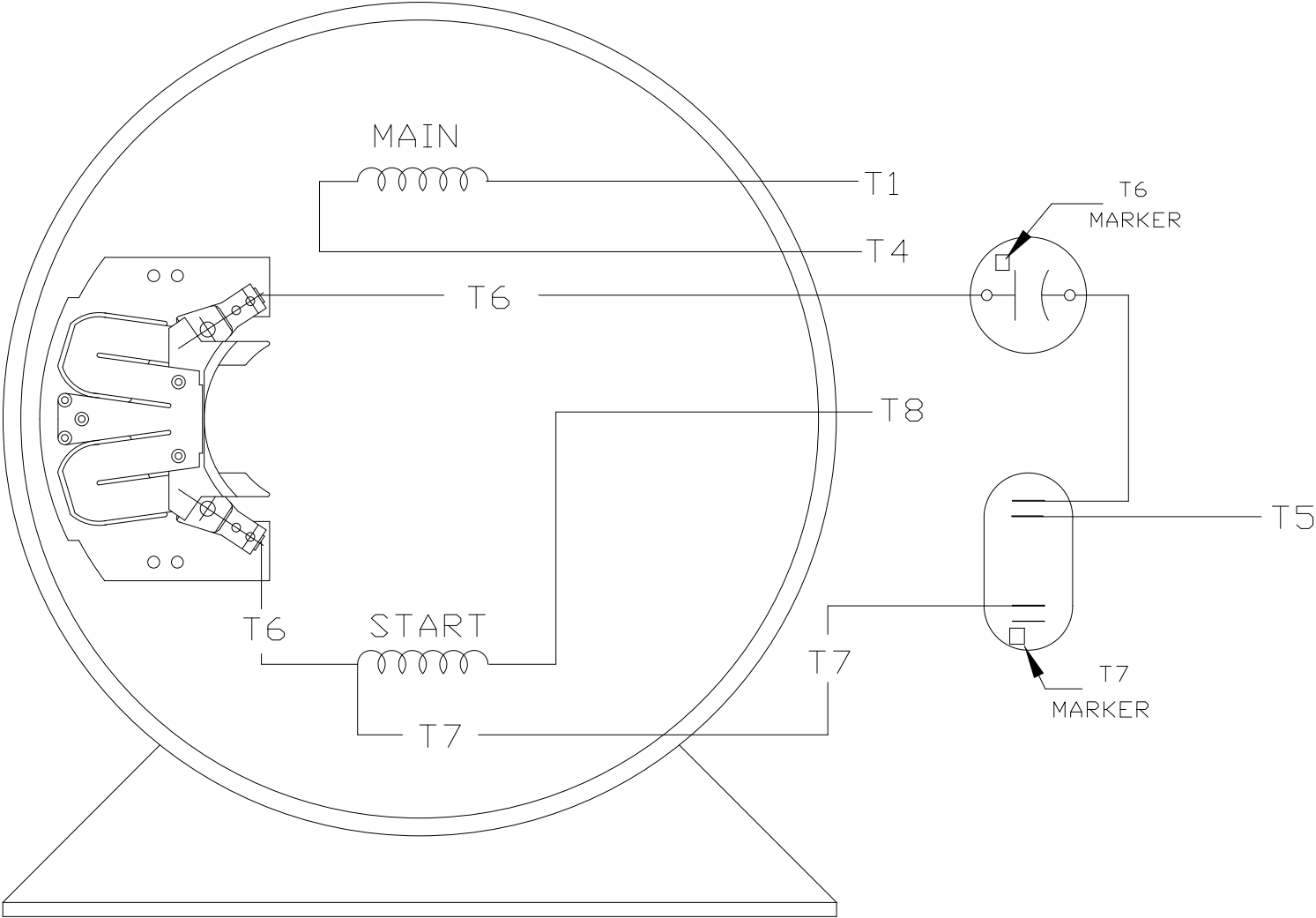
C.W. ROTATION



C.C.W. ROTATION



SINGLE VOLTAGE
CAPACITOR START
CAPACITOR RUN
REVERSIBLE



VIEW OF TERMINAL END

DRAWING REVISION C	REVISION BY SB	REV DATE/ © DATE 08/20/2025
REQUEST NUMBER CR-0023600	APPROVED BY SBD	DATE 08/20/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY GK
DATE 11/01/1986
APPROVED BY FG
DATE 11/04/1986
REFERENCE
THIRD ANGLE PROJECTION

marathon™		
DESCRIPTION CONN DIAGRAM-EXTERNAL		
MATERIAL		PROCESS/FINISH
SIZE A	DRAWING NUMBER 4 of 6 EE9048MF	SHEET 1 OF 1

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer CATALOG

Curve at

230

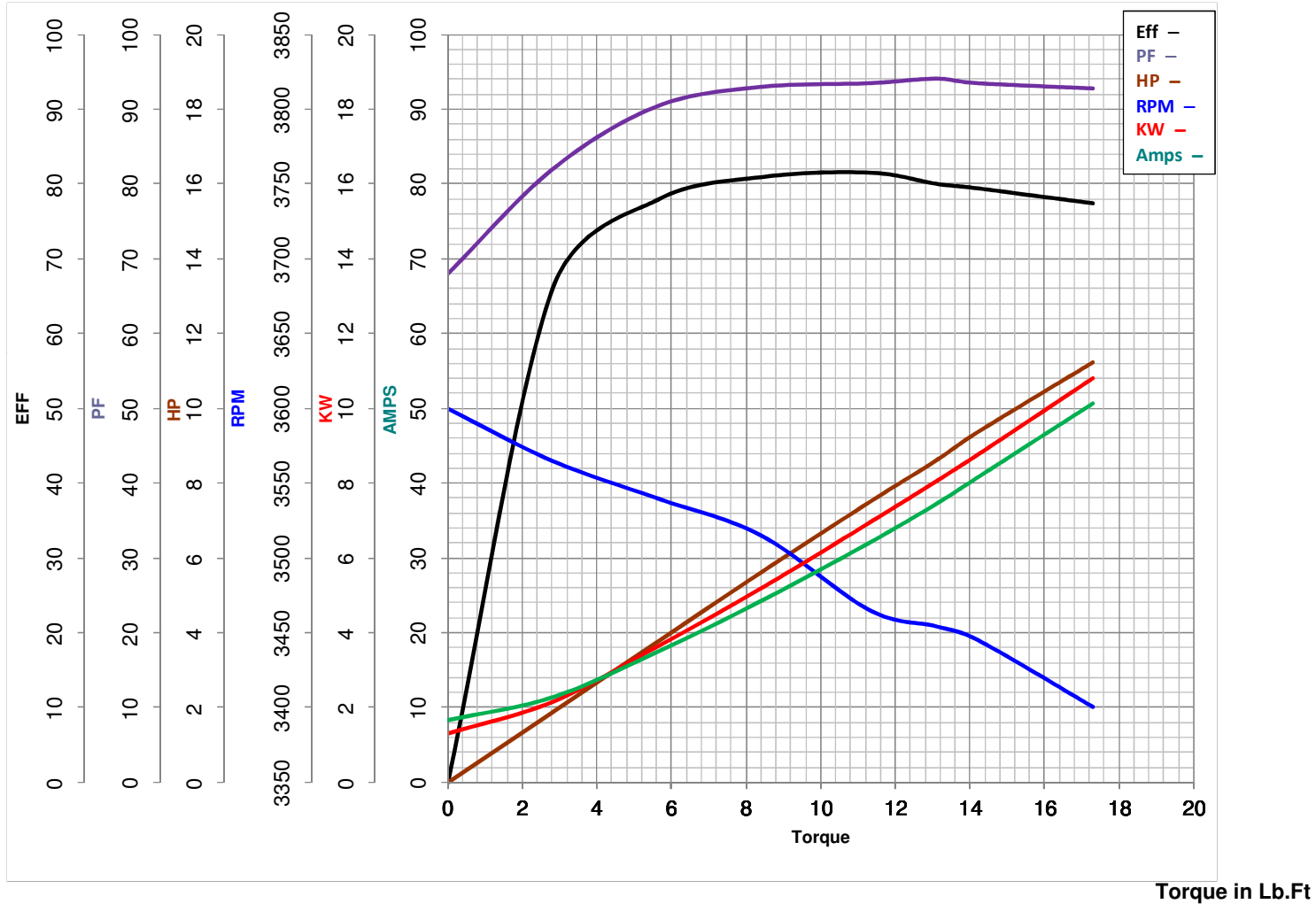
Volts

HP 7.50PHASE 1Model No 213TBFW700160

HZ

7.5

HP

VOLTS 208-230Catalog No 1224HZ 60RPM 3465

Torque in Lb.Ft

FL TORQUE 11.3 Lb.FtBD TORQUE 25.3 Lb.FtLR TORQUE 18.7 Lb.FtFL AMPS 36-32PU TORQUE 22.5 Lb.FtLR AMPS 189

WINDING BK10269-1

Prepared By

SRIKANTH

Date

6/20/2017

CERTIFICATION DATA SHEET

Model#: 213TBFW7001 AB
 CONN. DIAGRAM: A-EE9048MF
 OUTLINE: 037646-965

WINDING#: BK10269 NONE 1
 ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.6	3600	3465	213T	TEFC	G	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	208-230	36-32	ACROSS THE LINE	CONTINUOUS	F4	1.0	40	3300

FULL LOAD EFF: 81.5	3/4 LOAD EFF: 80.9	1/2 LOAD EFF: 77.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 93.5	3/4 LOAD PF: 93	1/2 LOAD PF: 90.4	0	CAP START CAP RUN	8.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.3 LB-FT	189	18.7 LB-FT 165	25.3 LB-FT 224	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	0 LB-FT^2	- LB-FT^2	10 SEC.	-	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6307	6206	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE		
	INV. HP SPEED RANGE: NONE		
	ENCODER: NONE		
	NONE NONE		
	NONE NONE PPR		
	BRAKE: NONE NONE		
	NONE P/N NONE		
	NONE NONE		
- FT-LB		NONE V	NONE Hz

DATE: 06/20/2017 06:13:34 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.