marathon®

Severe Duty Motors

Model No: 215TTFCD6580
Catalog No: E683B

Severe Duty Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 215T Frame, TEFC

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Product Information Packet: Model No: 215TTFCD6580, Catalog No: E683B Severe Duty Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 215T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**5 Hp**
Output KW	**3.7 kW**	Voltage	**575 V**
Speed	**1180 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**215T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**89.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**5.5 A**
Power Factor	**77.5**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**B**
KVA Code	**J**	Drive End Bearing Size	**6308**
Opp Drive End Bearing Size	**6208**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

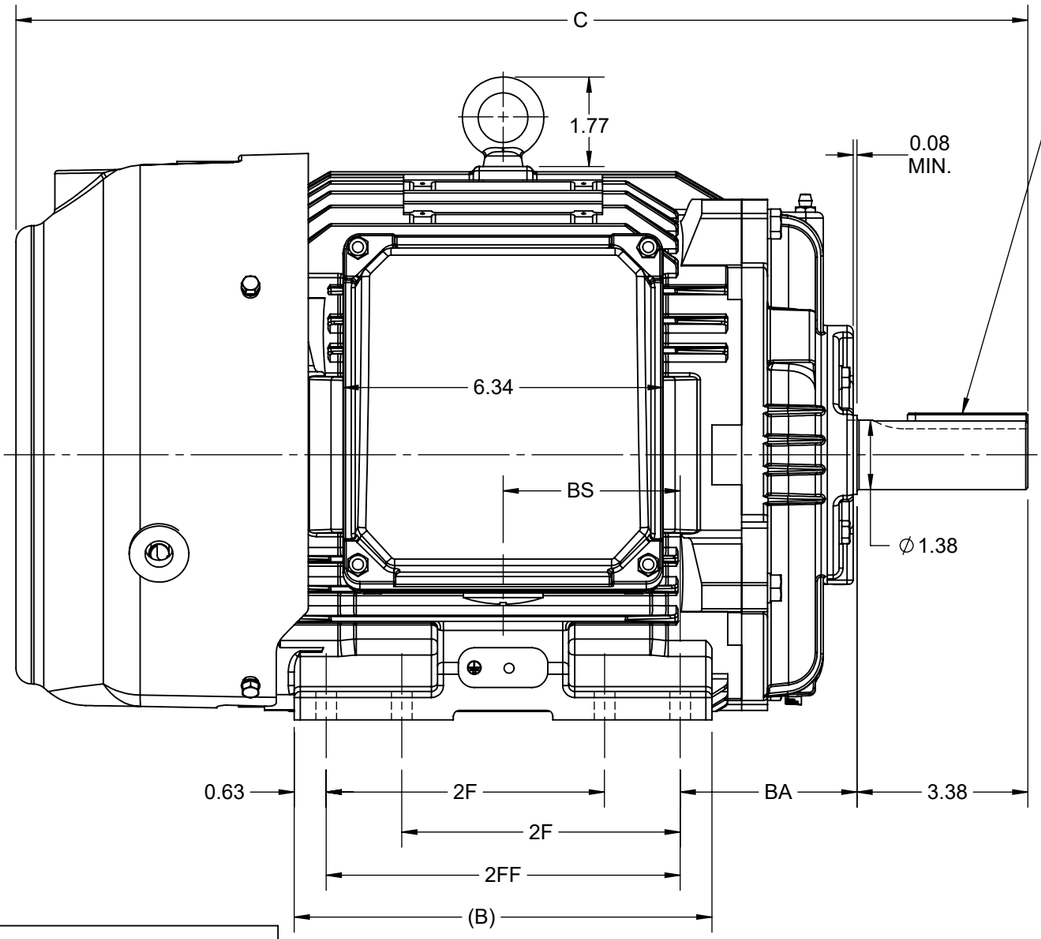
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**2.656 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**1.375 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 10:1/Variable 10:1**

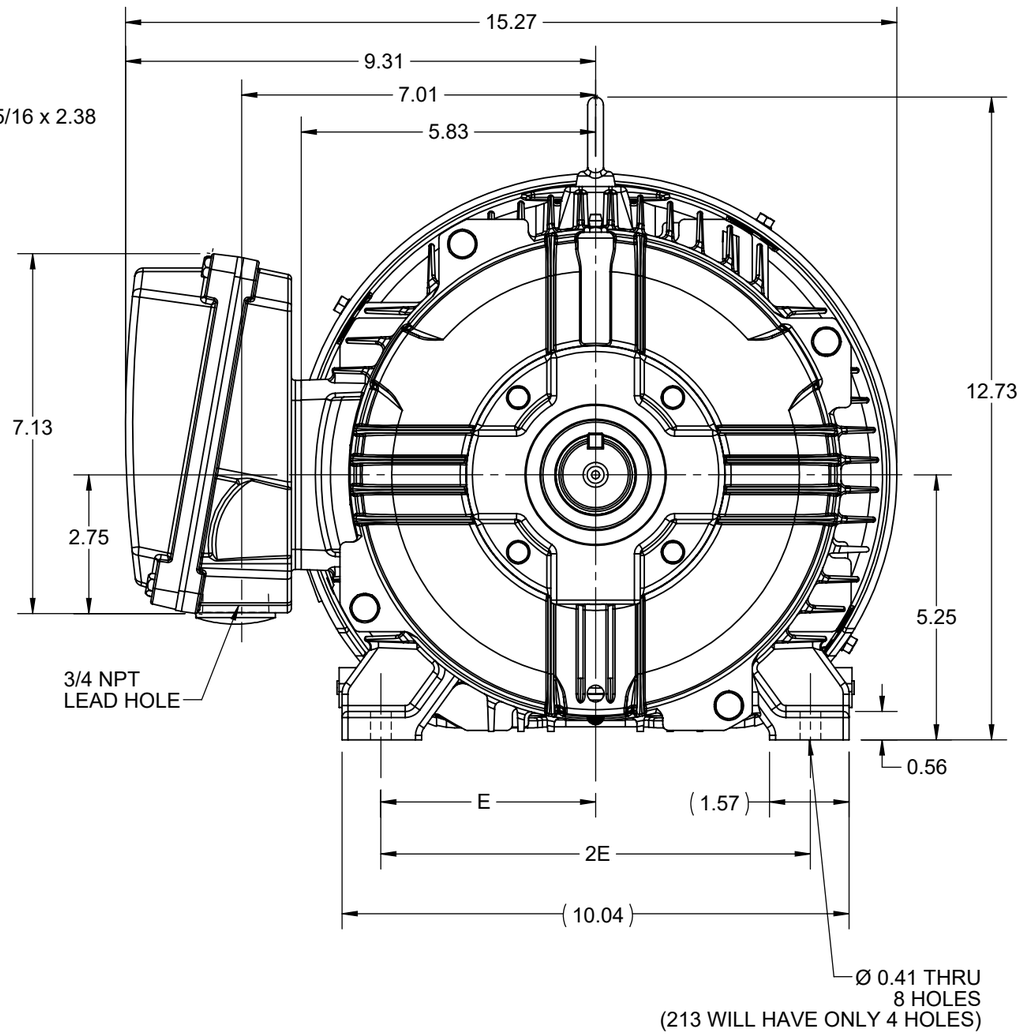
Drawings

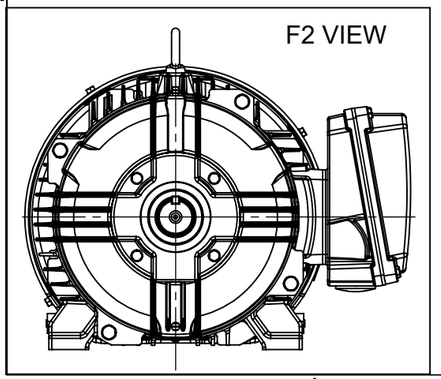
Connection Drawing	**EE7300**	Outline Drawing	**SS810116-200**

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DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	6.76	18.53	4.25	8.50	---	5.50	3.50	2.75	F1 OR F2	213T
200	8.26	20.03			5.50	7.00		3.50		213/215T







DRAWING REVISION: E	REVISION BY: SB	REV DATE/© DATE: 07/23/2025
REQUEST NUMBER: CR-0023556	APPROVED BY: SBD	DATE: 07/23/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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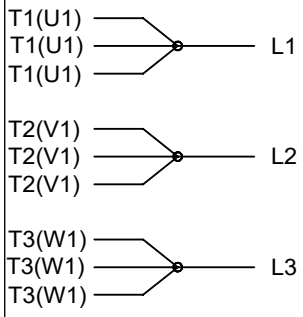
PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY: BISWA	marathon™	
DATE: 24/12/2018	DESCRIPTION: OUTLINE 213/215T FR NEMA- SD & IEEE841	
APPROVED BY: SBD		
DATE: 24/12/2018		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS810116	SHEET: 1 OF 1

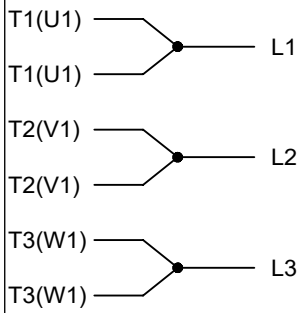
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

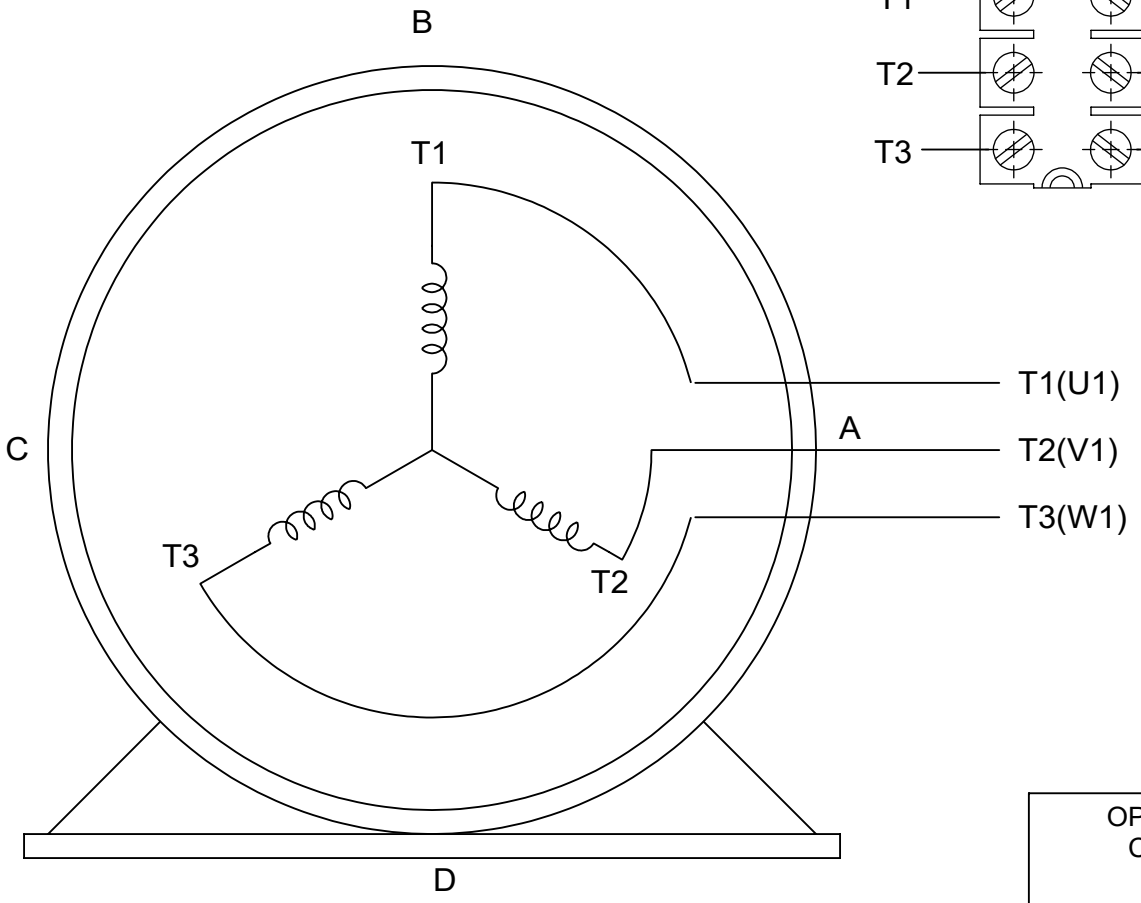
IF MOTOR HAS
9 LEADS



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

REQUEST NUMBER DESCRIPTION
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DRAWN BY: DA	
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

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Data Sheet

Date: 5/6/2020
Customer:
Attention:
Submitted by:

marathon® Motors

215TTFCD6580

Submittal

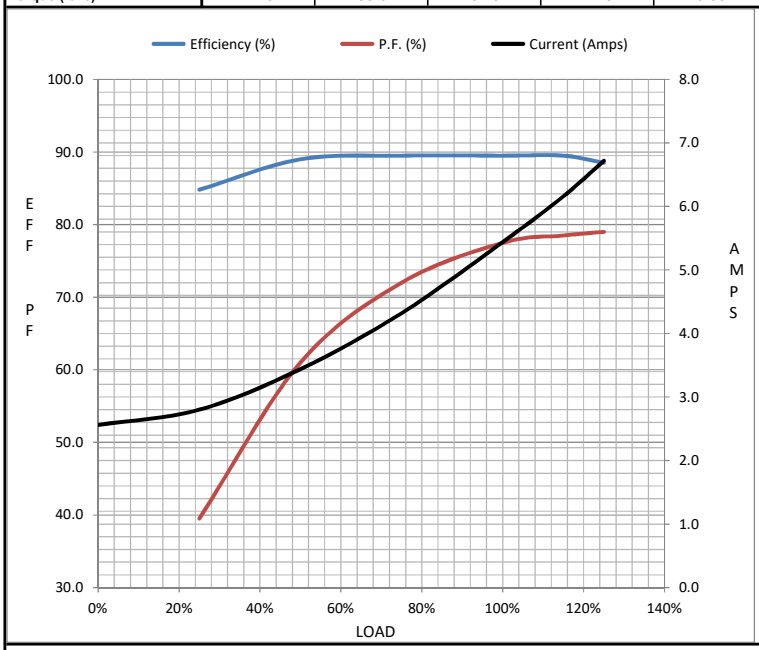
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.56	2.80	3.4	4.3	5.4	6.2	6.7	38.4	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	25.7	28.1	41.0	
RPM	1200	1195	1190	1185	1180	1,175	1170	0	
Efficiency (%)		84.8	89.0	89.5	89.5	89.5	88.5		
P.F. (%)	6.0	39.5	61.0	72.0	77.5	78.5	79.0	45.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1075	1180	1200
Current (Amps)	38.4	32.8	18.4	5.4	2.56
Torque (ft-lb)	41.0	35.0	62.5	22.3	0.00



Information Block

HP	5.0	
Sync. RPM	1200	
Frame	215	
Enclosure	TEFC	
Construction	TFC	
Voltage	575	V
Frequency	60	Hz
Design	A	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	1.05	Lb-Ft²
Ref Wdg	HE31326015 NONE	
Sound Pressure @ 1M	55	dBA
VFD Rating	CONSTANT 10:1/VARIABLE 10:1	
Outline Dwg	SS810116-215T	
Conn. Diag	EE7300	

Additional Specifications:

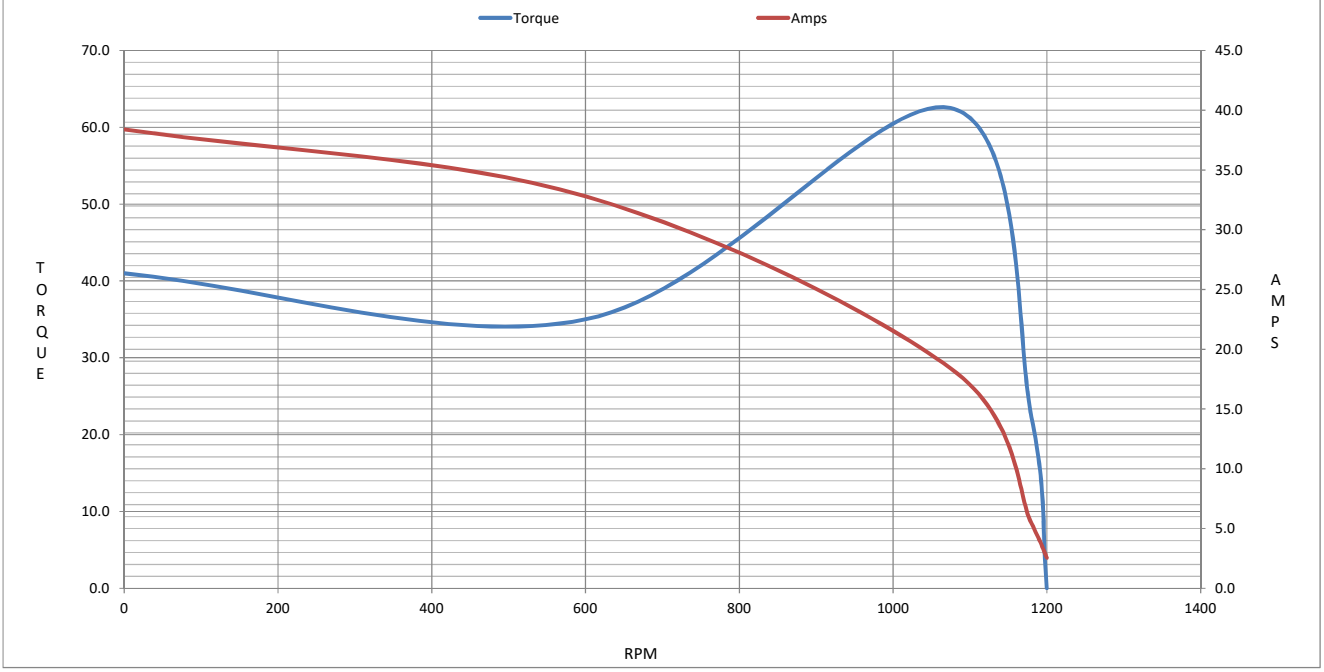
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.5210	1.1630	7.5530	10.5440	123.1850

Speed -Torque Curve



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DATA VOLTS: 575

CERTIFICATION DATA SHEET

REFERENCE MODEL #: 215TTFCD6580
CONN. DIAGRAM: EE7300 **CAT #:** E683B
OUTLINE: SS810116-215T
WINDING: HE31326015 NONE 3 **MOUNTING:** F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	1200	1180	215T	TEFC	TFC	J	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	575	5.5	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	89.5	1/2 LD EFF	89.0	GTD EFF	ELECT. TYPE
F.L. PF	77.5	3/4 LD PF	72.0	1/2 LD PF	61.0	88.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
22.3 LB-FT	38.4	41.0 LB-FT 184%	62.5 LB-FT 280%	45	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.
55 dBA	64 dBA	1.05 LB-FT²	110 LB-FT²	25 SEC.	2	194 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
6308	6208						

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
3.9390625	1.8171875	11.8015625	16.475	192.4765625	0.080	ODE

*
NOTES
*

If Inverter equals NONE, contact factory for further information
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: 5/13/2020

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