marathon®

Inverter (Vector) Duty Motors

Model No: 365THFCD8036
Catalog No: Y574A

Inverter (Vector) Duty Motor, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 365T Frame, TEFC

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Product Information Packet: Model No: 365THFCD8036, Catalog No: Y574A Inverter (Vector) Duty Motor, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 365T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**75 Hp**
Output KW	**56.0 kW**	Voltage	**230/460 V**
Speed	**1785 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.00**	Frame	**365T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**Thermostat**
Efficiency	**95.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**170.0/85.0 A**
Power Factor	**87.2**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**INV**
KVA Code	**L**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**6213**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

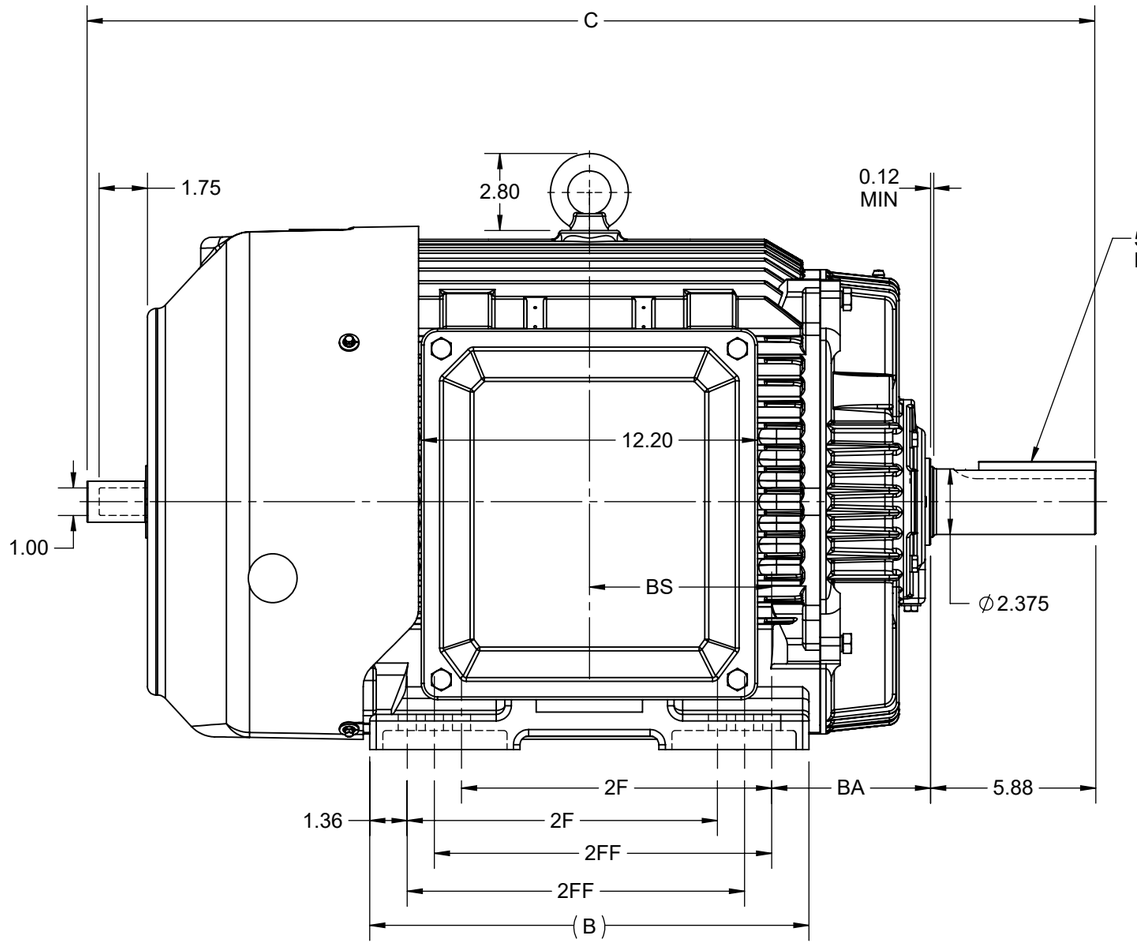
Electrical Type	**Squirrel Cage Inverter Duty**	Starting Method	**Inverter Only**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.0713 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**2.375 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2000:1**

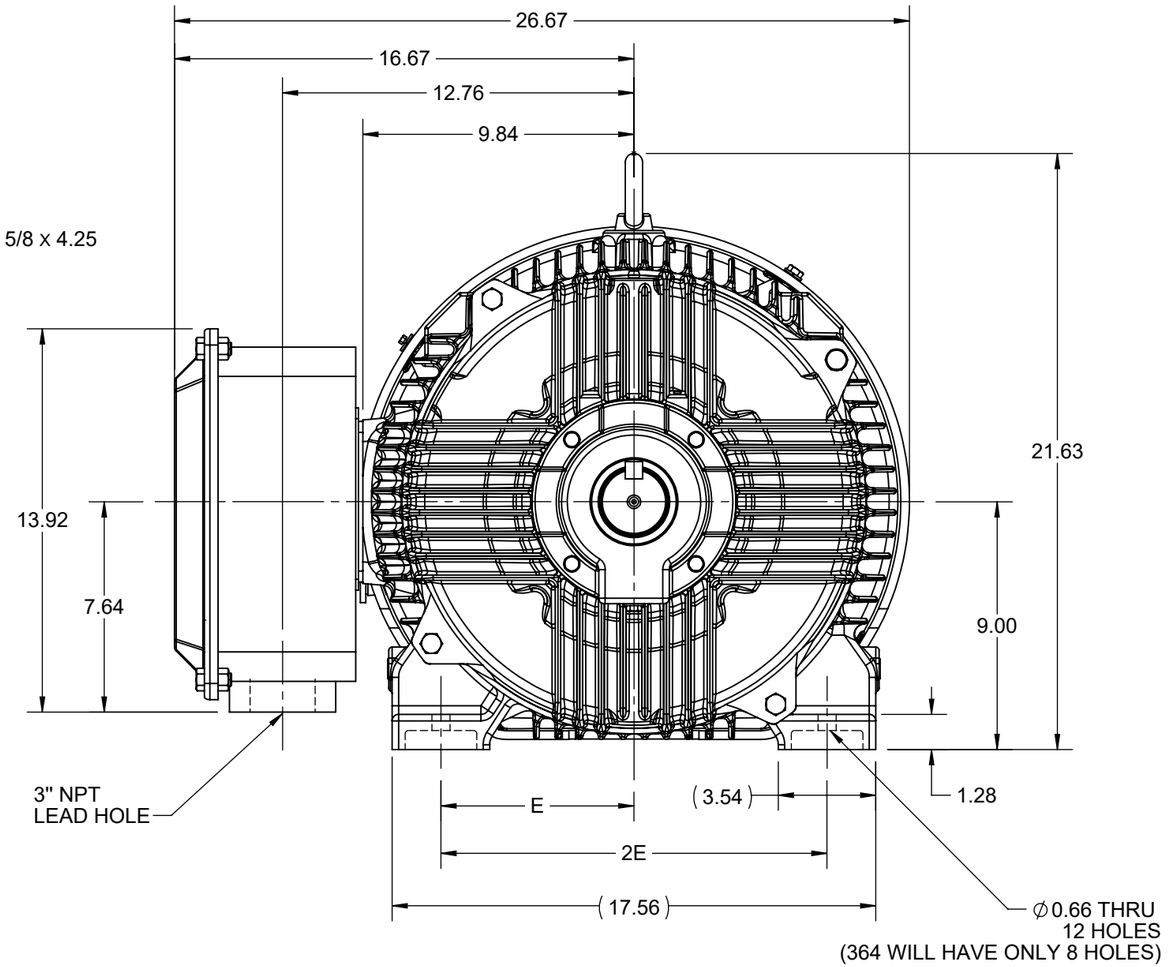
Drawings

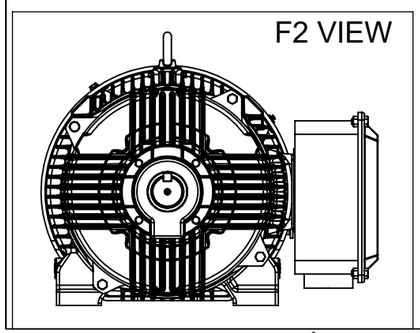
Connection Drawing	**EE7308AD**	Outline Drawing	**SS621053-200**

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DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	14.96	35.61	7.00	14.00	-	11.25	5.88	6.12	F1 OR F2	364T
200	15.94	36.59			11.25	12.25		6.62		364/365T







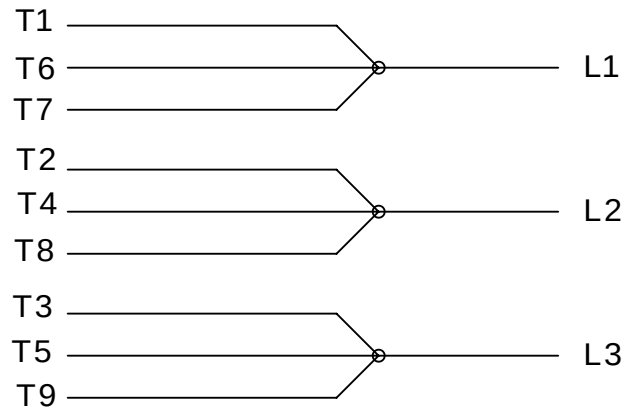
DRAWING REVISION: C	REVISION BY: SB	REV DATE/© DATE: 08/20/2025
REQUEST NUMBER: CR-0023556	APPROVED BY: SBD	DATE: 08/20/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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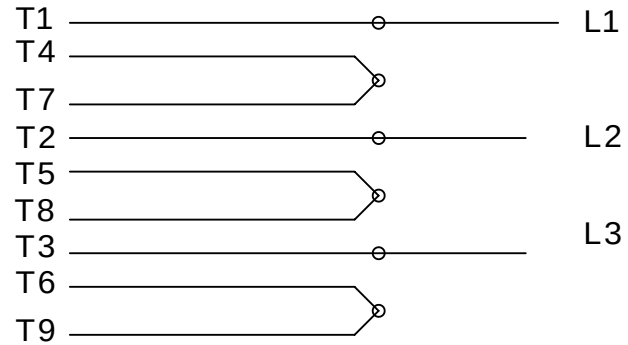
PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

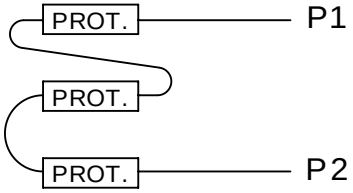
DRAWN BY: MSH	marathon™
DATE: 25/08/2020	
APPROVED BY: SBD	DESCRIPTION: OUTLINE
DATE: 25/08/2020	364/365T FR-NEMA-TEFC-CAST IRON - TACH MTG.
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS621053 / SHEET: 1 OF 1

LOW VOLTAGE

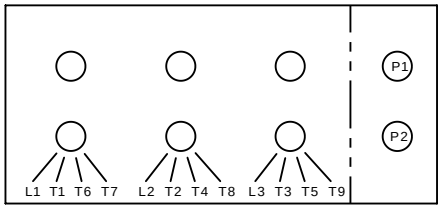


HIGH VOLTAGE

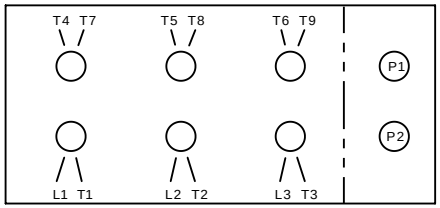


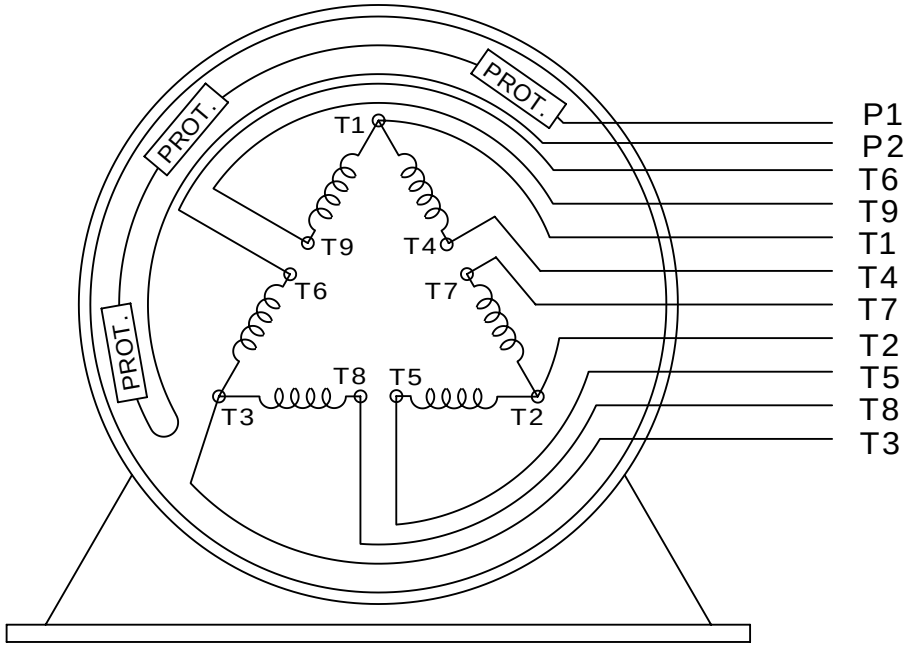


LOW VOLTAGE



HIGH VOLTAGE





VIEW OF TERMINAL END

WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

DRAWING REVISION M	REVISION BY SB	REV DATE/© DATE 06/03/2026	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY MJD	marathon™
REQUEST NUMBER CR-0026504	APPROVED BY RMS	DATE 06/03/2026		DATE 12-19-1997	
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED				APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL
				DATE 01-07-1998	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE A / DRAWING NUMBER ee7308ad / SHEET 1 OF 1

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Data Sheet

Date: 9/27/2021
Customer:
Attention:
Submitted by:

marathon® Motors

365THFCD8036

Submittal

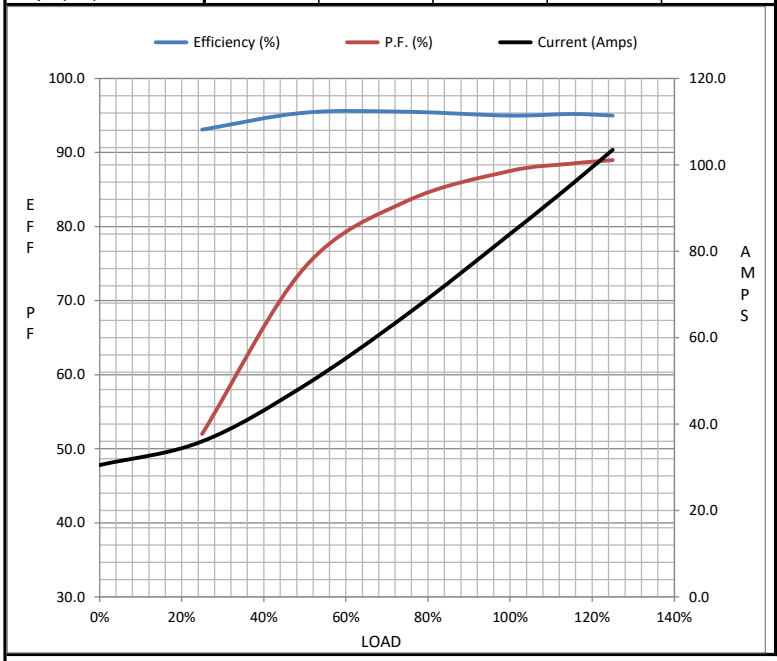
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	30.5	36.0	49.0	65.5	84.0	95.5	104	887	
Torque (ft-lb)	0.00	54.8	110	165	221	254	276	416	
RPM	1800	1795	1792	1790	1785	1,780	1780	0	
Efficiency (%)		93.1	95.4	95.5	95.0	95.2	95.0		
P.F. (%)	4.0	52.0	74.5	83.5	87.5	88.5	89.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	893	1615	1785	1800
Current (Amps)	887	798	571	84.0	30.5
Torque (ft-lb)	416	354	975	221	0.00

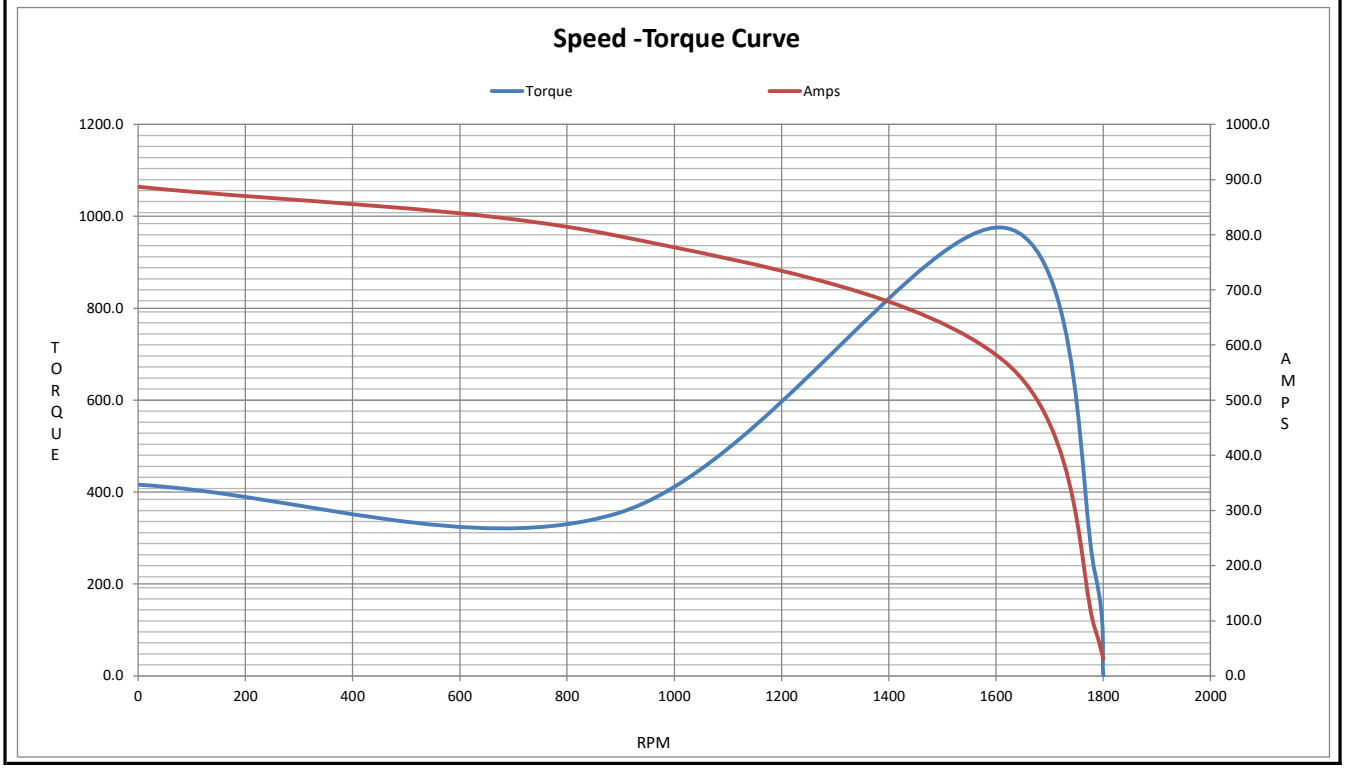


Information Block

HP	75.0	
Sync. RPM	1800	
Frame	365	
Enclosure	TEFC	
Construction	TFN	
Voltage	230/460	V
Frequency	60	Hz
Design	INV	
LR Code letter	L	
Service Factor	1.15	
Temp Rise @ FL	60	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	5.092	Lb-Ft²
Ref Wdg	HA32254018 NONE	
Sound Pressure @ 1M	73	dBA
VFD Rating	CONSTANT 2000:1	
Outline Dwg	SS621053-200	
Conn. Diag	EE7308T	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0460	0.0280	0.2680	0.2620	8.5190



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

marathon® Motors

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308T
OUTLINE: SS621053-200
WINDING: HA32254018 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 365THFCD8036
CAT #: Y574A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1800	1785	365T	TEFC	TFN	L	INV

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	168/84	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.5	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE
F.L. PF	87.5	3/4 LD PF	83.5	1/2 LD PF	74.5	94.5	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
221 LB-FT	887	416 LB-FT 188%	975 LB-FT 441%	60	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
73 dBA	82 dBA	5.092 LB-FT²	80 LB-FT²	18 SEC.	2	980 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	ENCODER	RIGID	HORIZONTAL	NO	NONE	YES	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6313	6213						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
0.046	0.028	0.268	0.262	8.519	0.150	ODE

* NOTES *

INVERTER TORQUE: CONSTANT 2000:1
INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**

UL: V-INS, CONST, OVERHEAT PRT DEV UL REC

PREPARED BY:
DATE: 9/27/2021

FORM: 3531 REV_4 2/27/06