marathon®

Severe Duty Motors

Model No: 365TSTFCD6501
Catalog No: E612A

Severe Duty Motor, 75 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 365TS Frame, TEFC

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Product Information Packet: Model No: 365TSTFCD6501, Catalog No: E612A Severe Duty Motor, 75 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 365TS Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**75 Hp**
Output KW	**56.0 kW**	Voltage	**460 V**
Speed	**3568 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**365TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**94.1 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**84.0 A**
Power Factor	**88**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**6213**	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	**2**	Rotation	**Reversible**
Resistance Main	**.0827 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	**1.875 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

Drawings

Connection Drawing	**EE7300U**	Outline Drawing	**SS557663-200**

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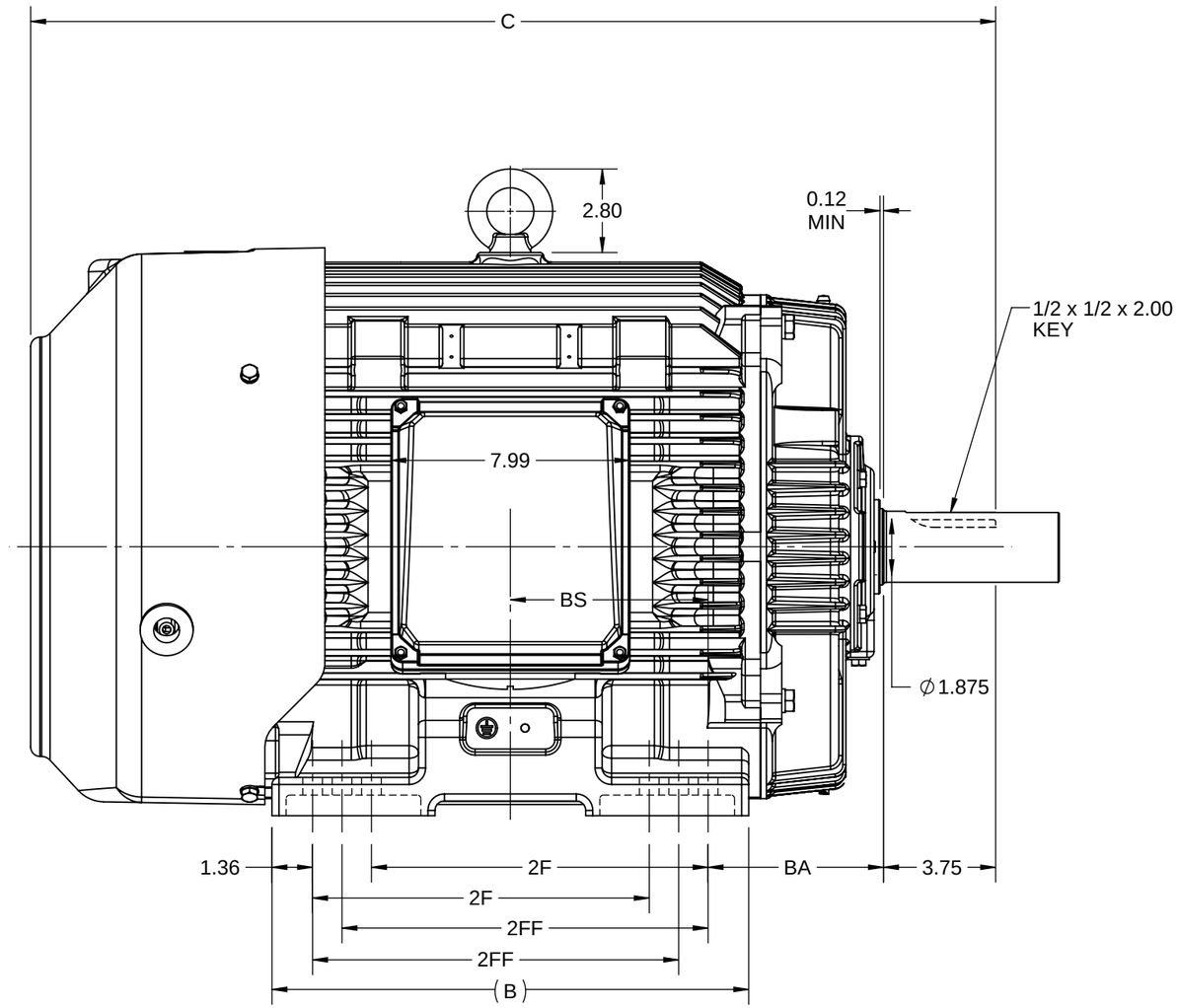
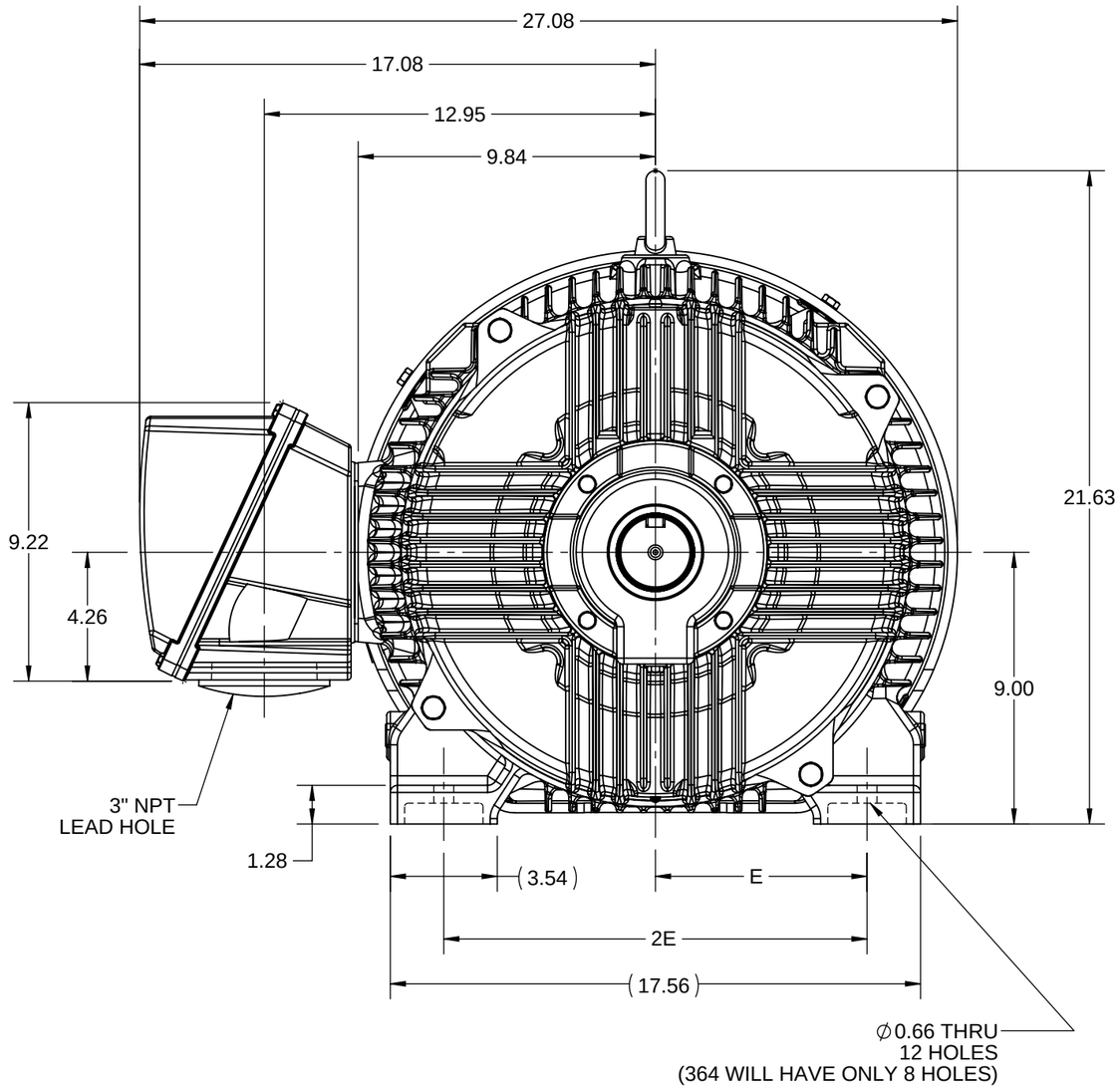
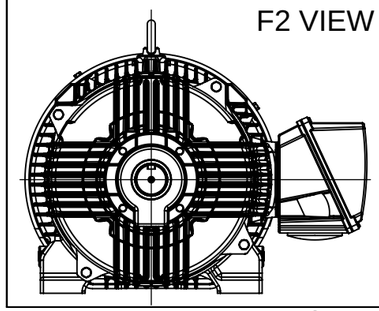
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	14.96	33.27	7.00	14.00	-	11.25	5.88	6.12	F1 OR F2	364TS
200	15.94	32.27			11.25	12.25		6.62		364/365TS





F2 VIEW



DRAWING REVISION: D	REVISION BY: SB	REV DATE/© DATE: 05/21/2026
REQUEST NUMBER: CR-0026353	APPROVED BY: RMS	DATE: 05/21/2026
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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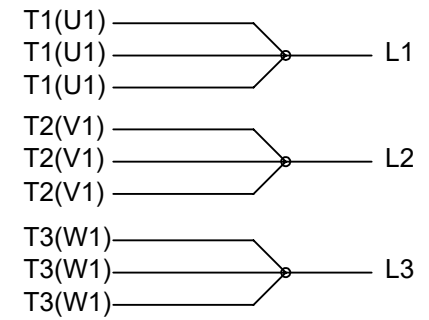
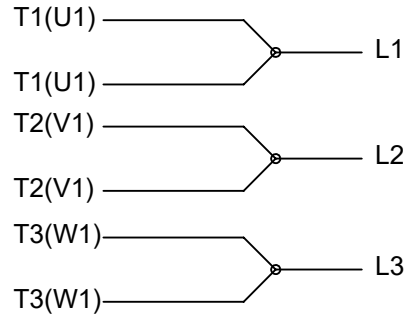
DRAWN BY: BISWA	marathon™	
DATE: 12/24/2018		
APPROVED BY: SBD	DESCRIPTION: OUTLINE	
DATE: 12/24/2018	364/365TS FR-NEMA-SD & IEEE841	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS557663	SHEET: 1 OF 1

IF MOTOR HAS 9 LEADS

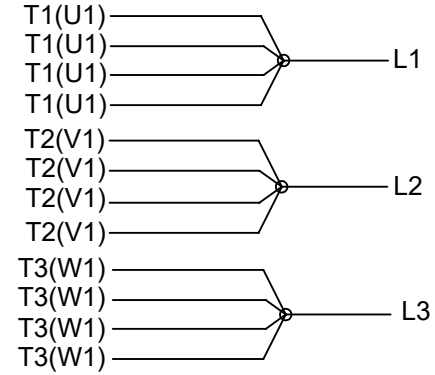


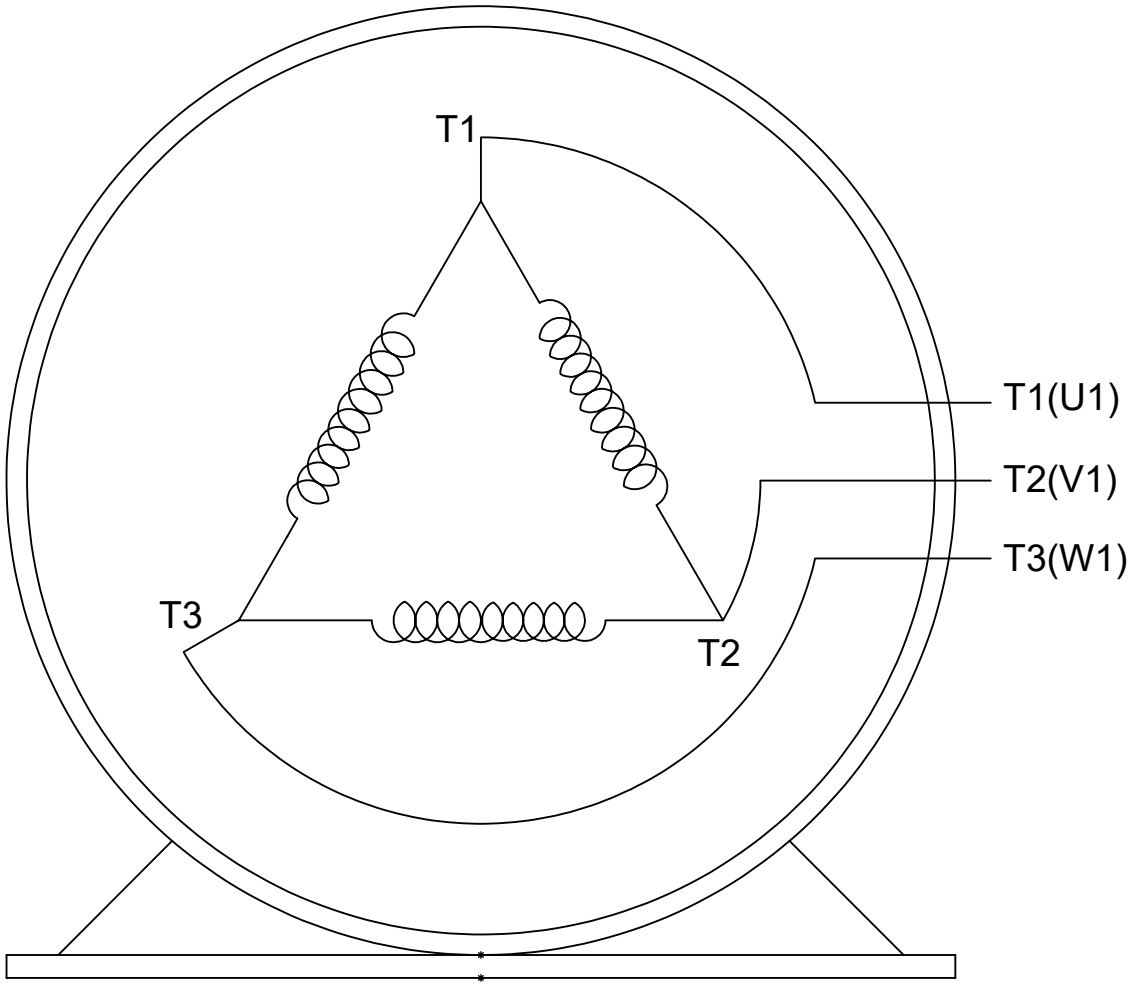
IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS





VIEW OF TERMINAL END

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

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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DRAWN BY	DRS
DATE	09-27-1996
APPROVED BY	GK
DATE	09-30-1996
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø SINGLE VOLTAGE

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300U	1 OF 1

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Data Sheet

Date: 3/10/2020
Customer:
Attention:
Submitted by: ANUSHA M

marathon® Motors

365TSTFCD6501

Submittal

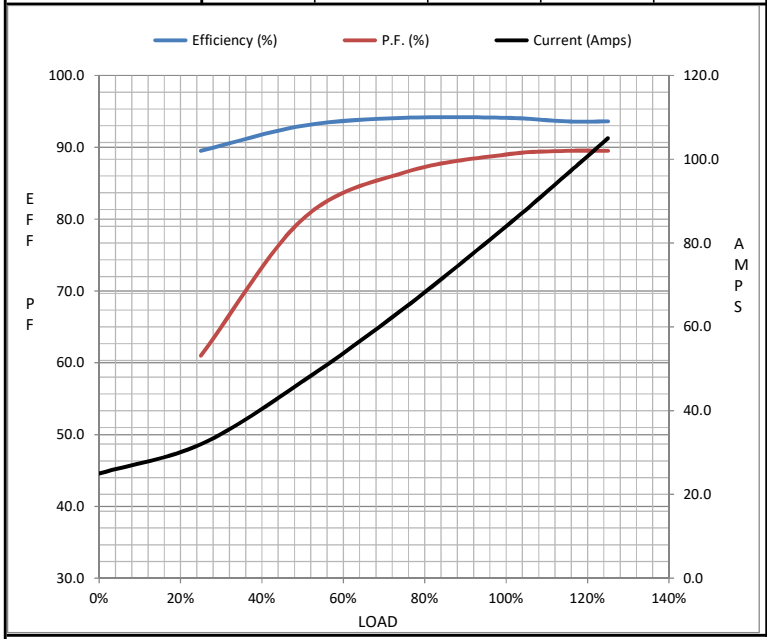
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	25.0	32.0	47.0	64.5	84.0	96.5	105	542	
Torque (ft-lb)	0.00	27.4	54.8	82.4	110	127	138	204	
RPM	3600	3592	3584	3576	3570	3,562	3558	0	
Efficiency (%)		89.5	93.0	94.1	94.1	93.6	93.6		
P.F. (%)	8.0	61.0	80.0	86.5	89.0	89.5	89.5	29.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3445	3570	3600
Current (Amps)	542	432	315	84.0	25.0
Torque (ft-lb)	204	153	308	110	0.00



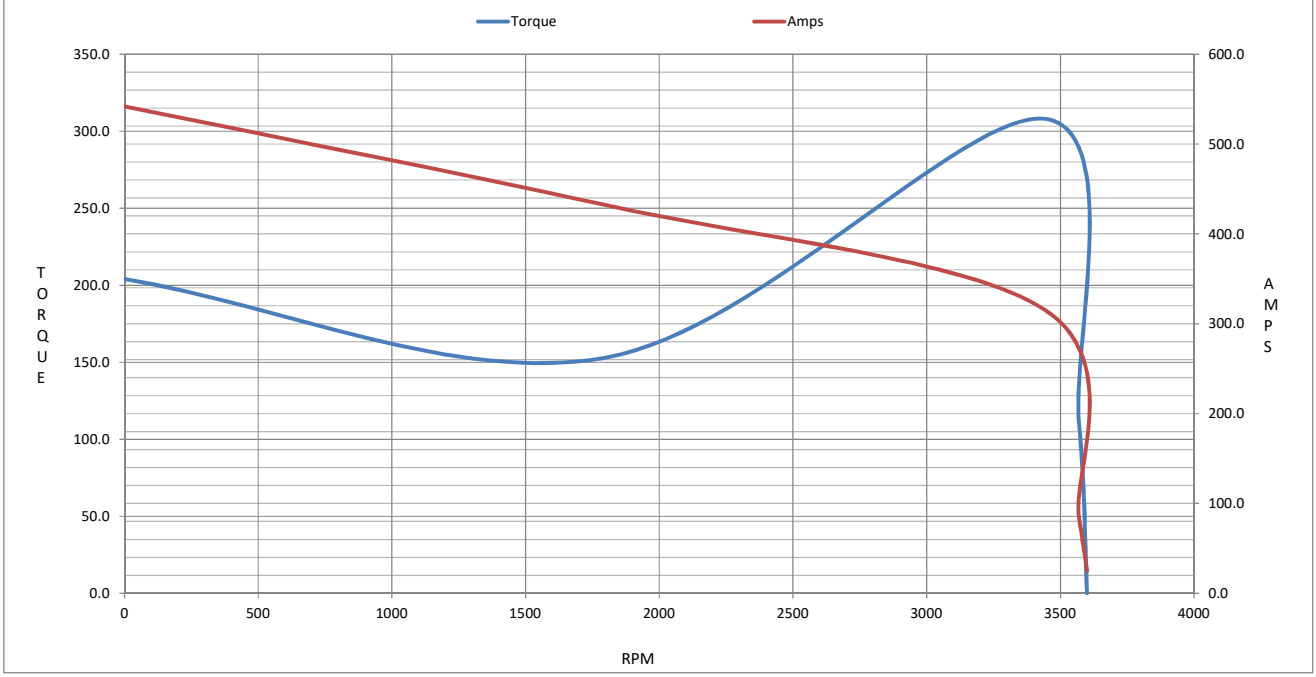
Information Block

HP	75.0
Sync. RPM	3600
Frame	365
Enclosure	TEFC
Construction	TFC
Voltage	460 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	70 ° C
Duty	CONT
Ambient	50 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	9.5 Lb-Ft²
Ref Wdg	HE32252005 NONE
Sound Pressure @ 1M	80 dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1
Outline Dwg	SS557663-365TS
Conn. Diag	EE7300U
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0490	0.0290	0.2680	0.3600	10.4730

Speed -Torque Curve



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DATA VOLTS: 460

CERTIFICATION DATA SHEET

MODEL #: 365TSTFCD6501
CONN. DIAGRAM: EE7300U **CAT #:** E612A
OUTLINE: SS557663-365TS
WINDING: HE32252005 NONE 1 **MOUNTING:** F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	3600	3570	365TS	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft)
3	60	460	84	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.0	GTD EFF	ELECT. TYPE	
F.L. PF	89.0	3/4 LD PF	86.5	1/2 LD PF	80.0	93.0	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
110 LB-FT	542	204 LB-FT 185%	308 LB-FT 280%	70	

SOUND PRESSURE @	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR
80 dBA	89 dBA	9.5 LB-FT²	50 LB-FT²	15 SEC.	2	939 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 6313	BALL 6213	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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)	
0.049	0.029	0.268	0.36	10.473	0.080	

If Inverter equals NONE, contact factory for further information

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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: ANUSHA M
DATE: 3/10/2020

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