marathon®

General Purpose Motors

Model No: 182TTFBD6002
Catalog No: GT1509

General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182T Frame, TEFC

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Product Information Packet: Model No: 182TTFBD6002, Catalog No: GT1509 General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**3 & 2 Hp**
Output KW	**2.2 & 1.5 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3530 & 2944 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**182T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**86.5 & 84.9 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**8/4 & 6.8/3.4 A**
Power Factor	**82**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**A**
KVA Code	**L**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

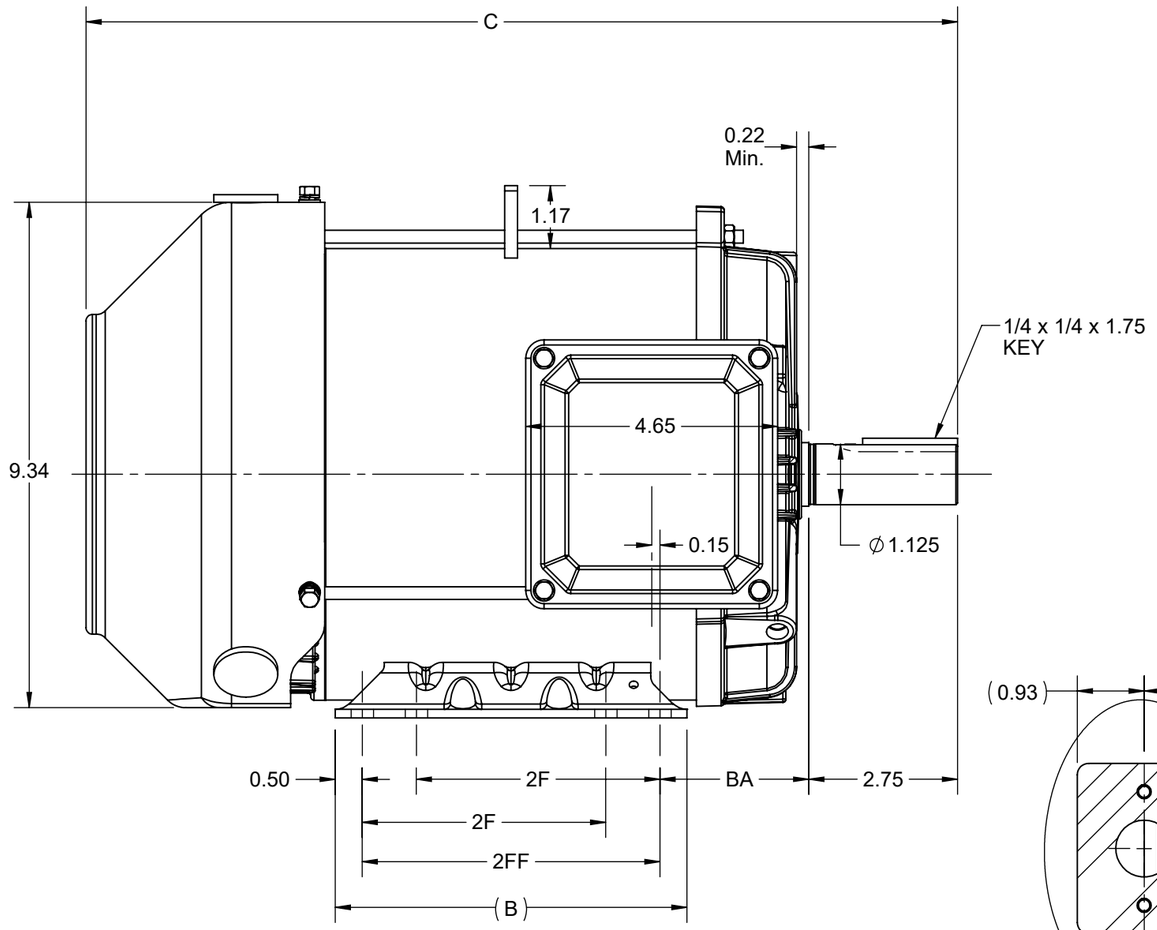
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**5.35 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Shaft Diameter	**1.125 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 10:1/Variable 10:1**

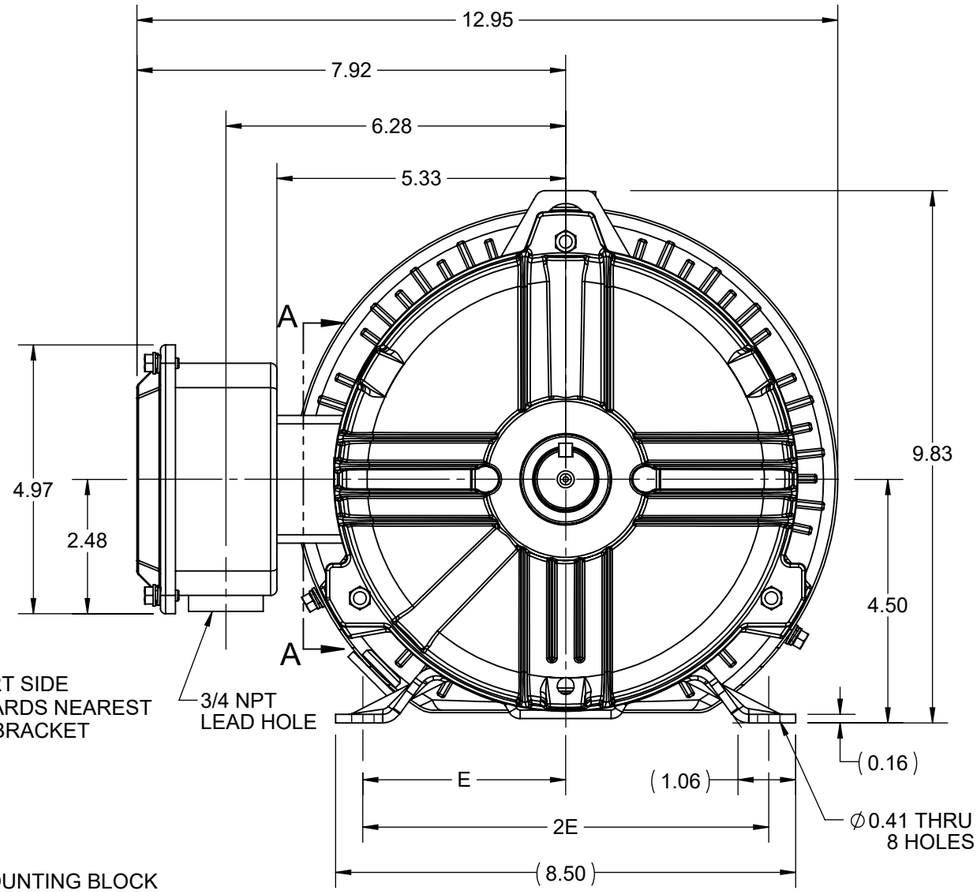
Drawings

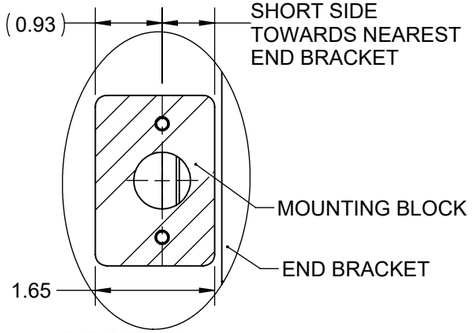
Connection Drawing	**EE7308**	Outline Drawing	**SS600226-100**

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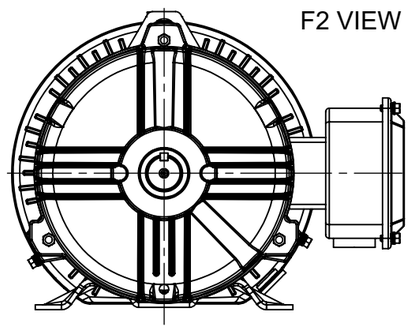
DASH NO.	B	C	E	2E	2F	2FF	BA	MOUNTING	FRAME
100	6.50	15.10	3.75	7.50	4.50	5.50	2.75	F1 OR F2	182T
200		16.10							184T







SECTION A-A
MOUNTING BLOCK
ORIENTATION



DRAWING REVISION: D	REVISION BY: SB	REV DATE/© DATE: 08/11/2025
REQUEST NUMBER: CR-0023556	APPROVED BY: SBD	DATE: 08/11/2025
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: 27/11/2019	DESCRIPTION: OUTLINE 182/184T FR NEMA TEFC RS	
APPROVED BY: MSH		
DATE: 27/11/2019		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS600226	SHEET: 1 OF 1

Uncontrolled Copy

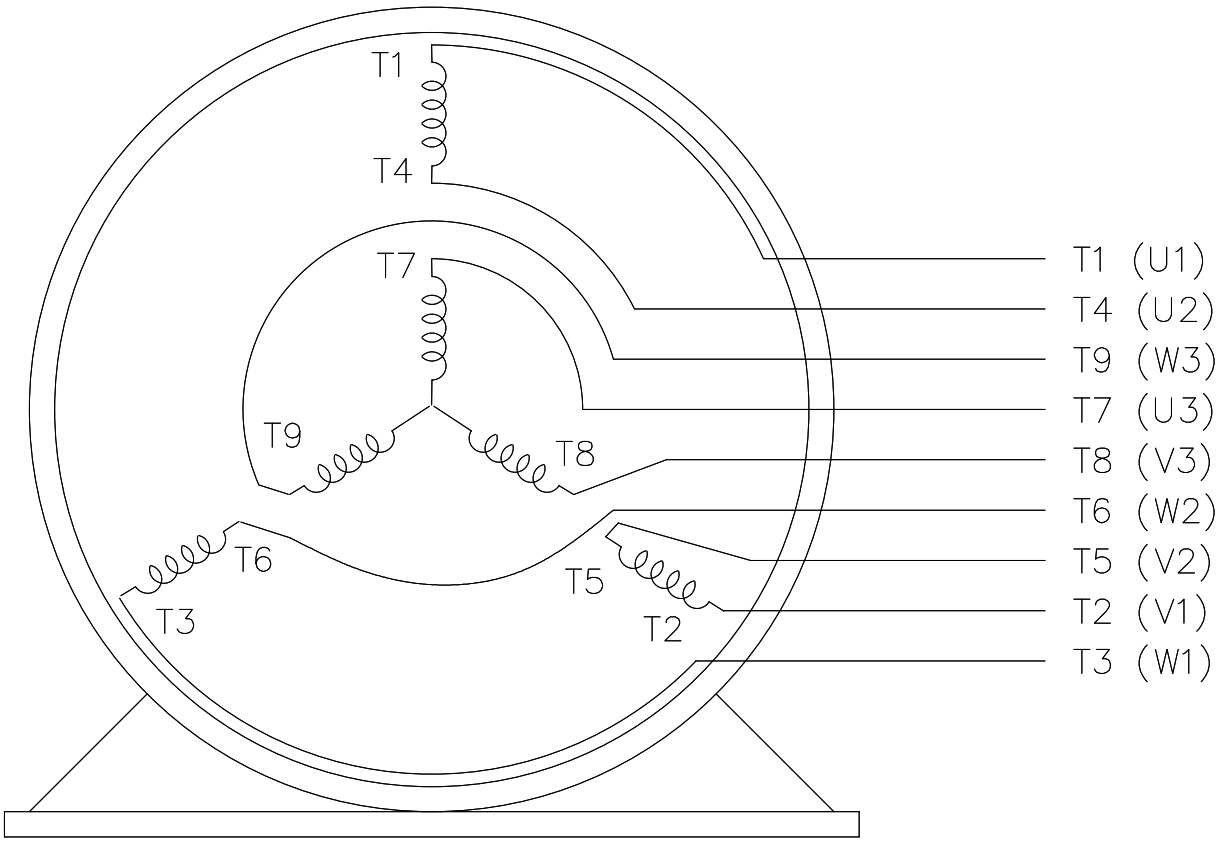
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
J	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	RM
DATE	11/20/1990
APPROVED BY	SAS
DATE	04/24/2003
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 6 EE7308	1 OF 1

Data Sheet

Date: 9/16/2021
Customer:
Attention:
Submitted by:

marathon® Motors

182TTFBD6002

Submittal

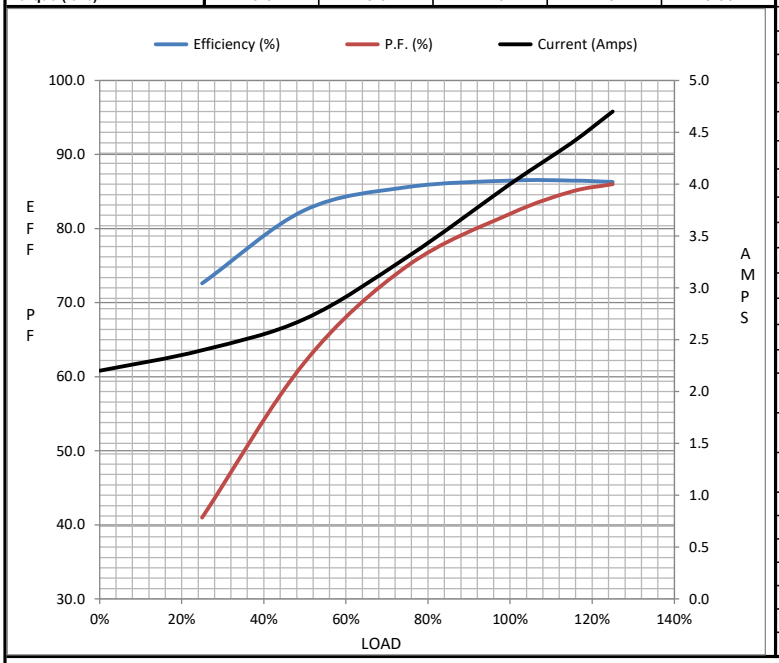
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.20	2.40	2.70	3.3	4.0	4.4	4.7	35.0	
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.2	5.6	9.6	
RPM	3600	3582	3566	3549	3530	3,520	3510	0	
Efficiency (%)		72.6	82.5	85.6	86.5	86.5	86.3		
P.F. (%)	11.5	41.0	62.0	75.0	82.0	85.0	86.0	55.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2945	3530	3600
Current (Amps)	35.0	29.0	20.5	4.0	2.20
Torque (ft-lb)	9.6	8.0	14.9	4.5	0.00

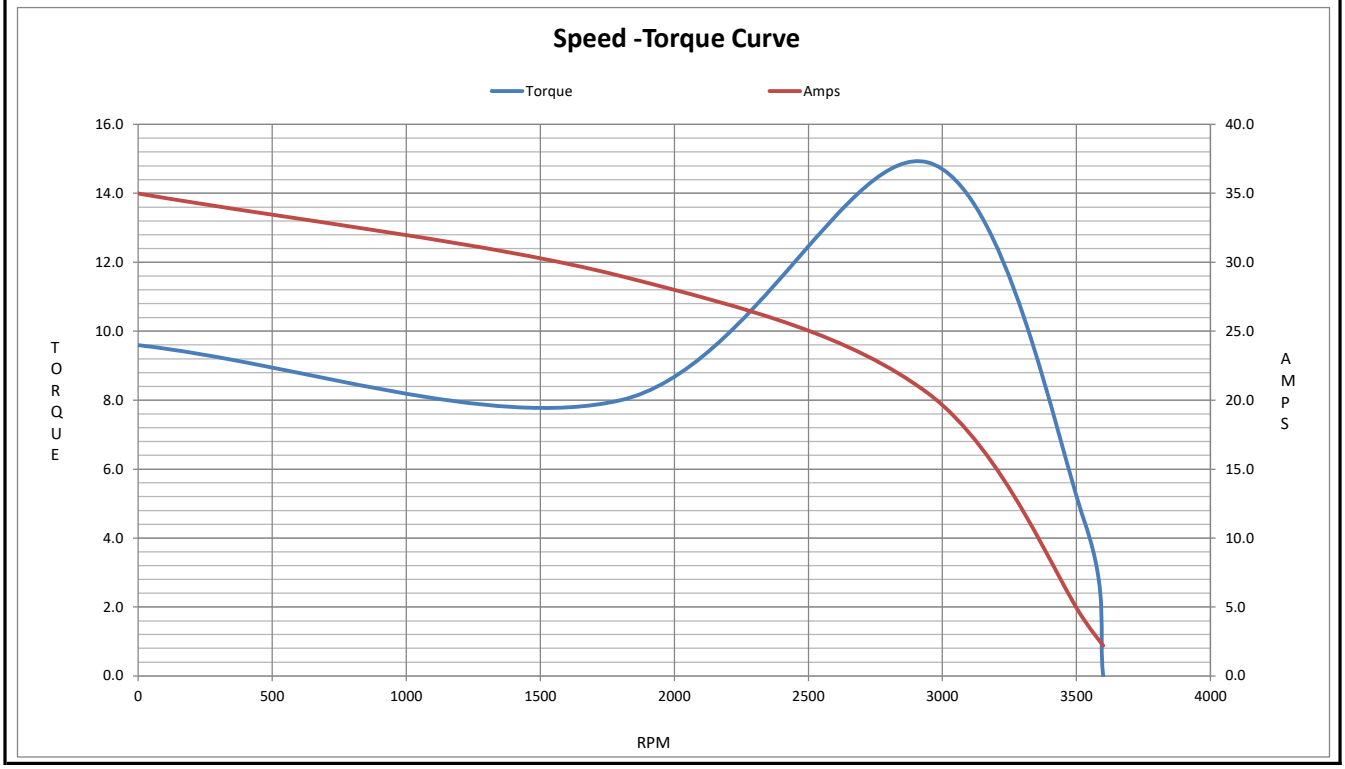


Information Block

HP	3.0
Sync. RPM	3600
Frame	182
Enclosure	TEFC
Construction	TFB
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	A
LR Code letter	L
Service Factor	1.15
Temp Rise @ FL	35 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	0.18 Lb-Ft²
Ref Wdg	HA31122022 NONE
Sound Pressure @ 1M	70 dBA
VFD Rating	CONSTANT 10:1/VARIABLE 10:1
Outline Dwg	SS600226-100
Conn. Diag	EE7308
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
3.1220	1.4190	5.5810	1.8450	122.5070



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

marathon® Motors

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308
OUTLINE: SS600226-100
WINDING: HA31122022 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 182TTFBD6002
CAT #: GT1509
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	3600	3530	182T	TEFC	TFB	L	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	8/4&6.8/3.4	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	86.5	3/4 LD EFF	85.6	1/2 LD EFF	82.5	GTD EFF	ELECT. TYPE
F.L. PF	82.0	3/4 LD PF	75.0	1/2 LD PF	62.0	85.5	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	35.0	9.6 LB-FT 213%	14.9 LB-FT 331%	35	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
70 dBA	79 dBA	0.18 LB-FT²	5 LB-FT²	15 SEC.	2	60	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	NO	DIVISION 2 T2B	YES	NONE	BLUE (ENAMEL)

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)	ROLLED STEEL
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)	FLOAT
3.122	1.419	5.581	1.845	122.507	0.150	ODE

*
N
O
T
E
S
*

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: 10/7/2021

FORM: 3531 REV_4 2/27/06

UL: NO LETTER - ME,WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED