marathon®

General Purpose Motors

Model No: 364TSTDBD6003
Catalog No: GT0283

General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 RPM, 364TSC Frame, DP

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Product Information Packet: Model No: 364TSTDBD6003, Catalog No: GT0283 General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 RPM, 364TSC Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**75 & 60 Hp**
Output KW	**56.0 & 45.0 kW**	Voltage	**208-230/460 & 190/380 V**
Speed	**3565 & 2968 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**364TSC**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93.6 & 93.6 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**192-172/86 & 166/83 A**
Power Factor	**87**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**6312**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

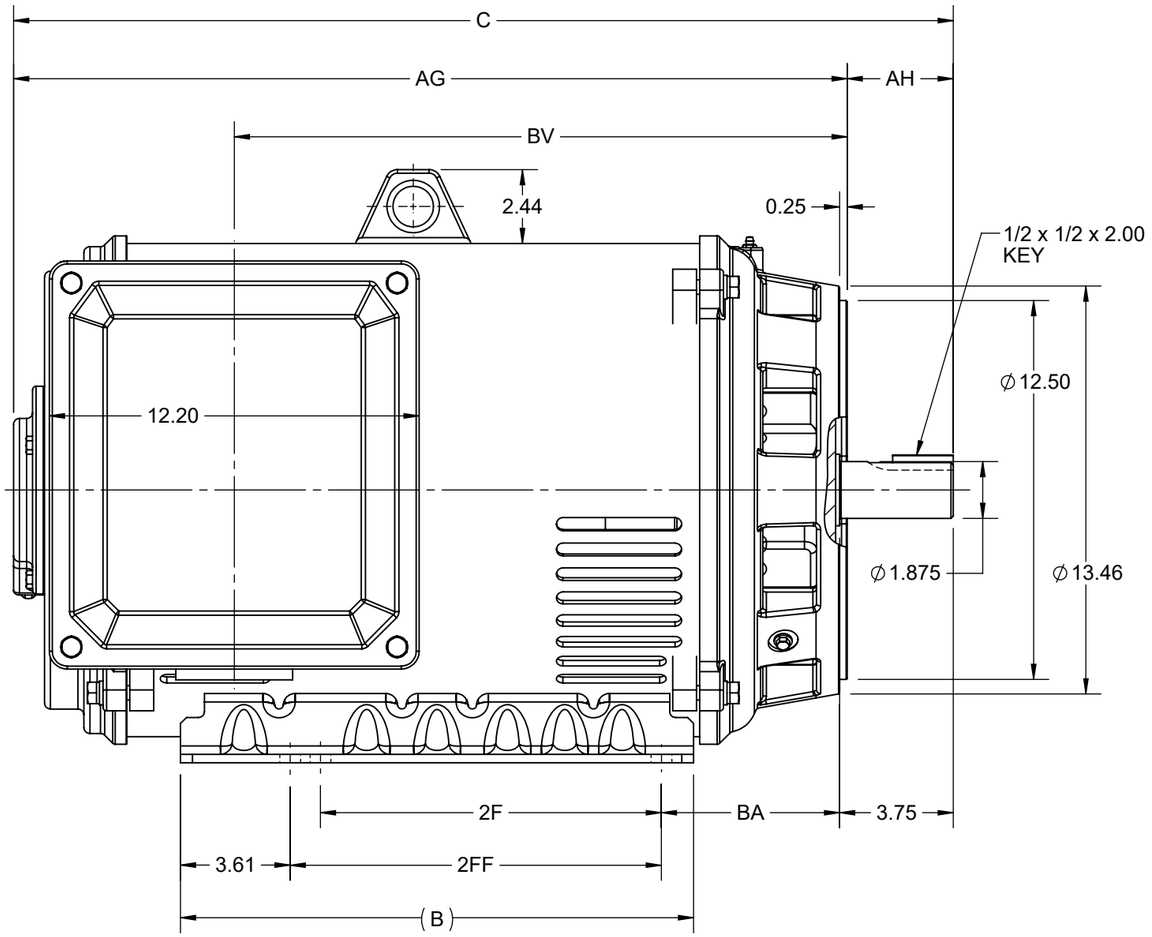
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.1034 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**TS**	Shaft Diameter	**1.875 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Variable 10:1**

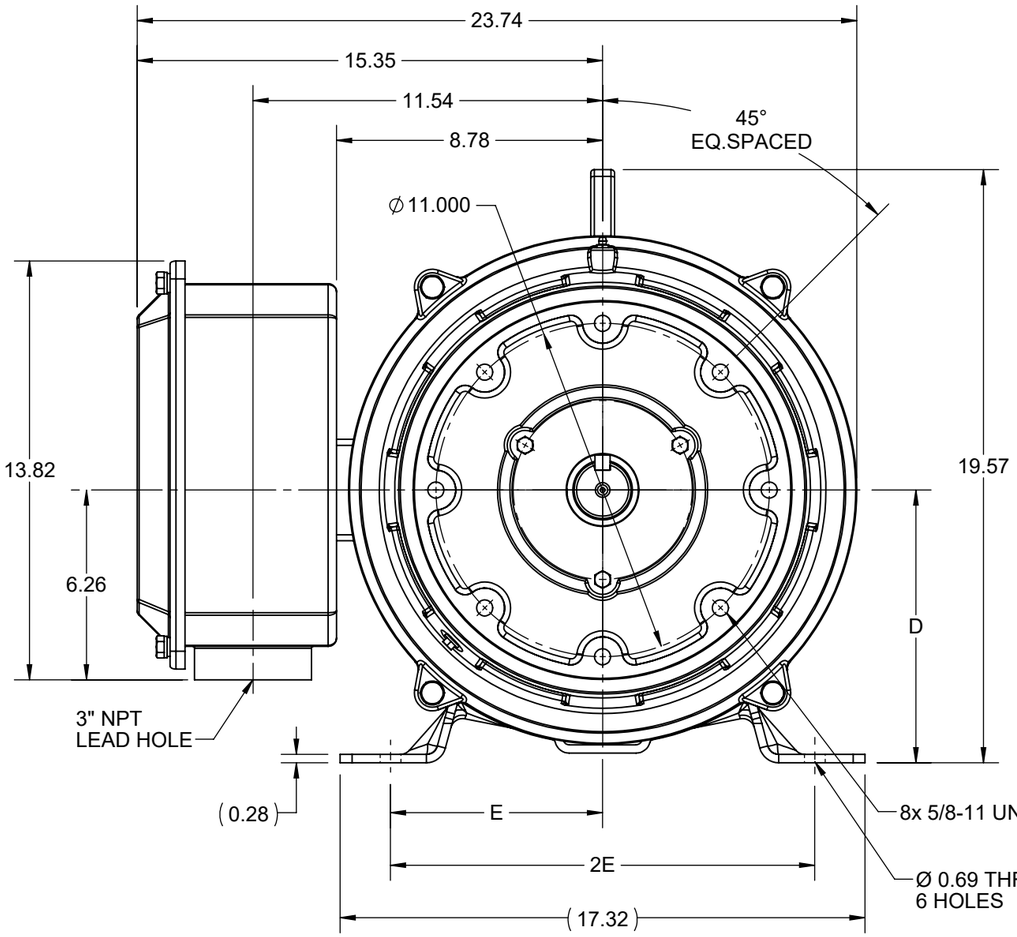
Drawings

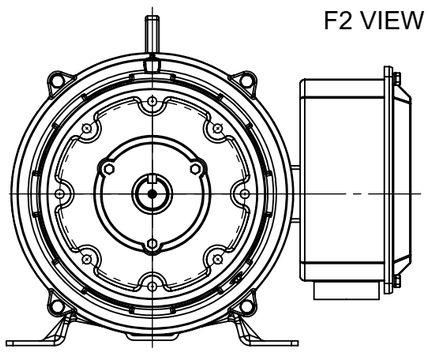
Connection Drawing	**EE7308AA**	Outline Drawing	**SS620749-100**

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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	16.93	29.44	9.00	7.00	14.00	11.25	12.25	25.94	3.50	5.88	18.65	F1 OR F2	364TSC
200		31.01						27.51			20.23		365TSC







DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SB	07/30/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	07/30/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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

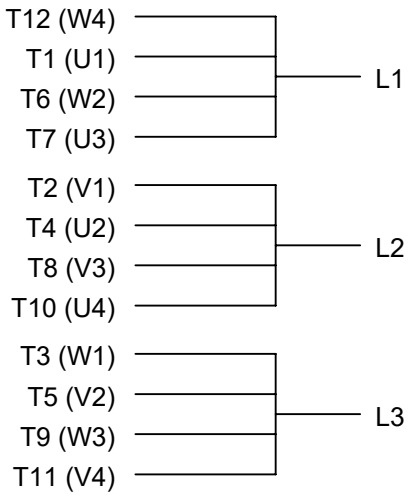
DRAWN BY	ZHU XIAOWEI
DATE	18/10/2016
APPROVED BY	
DATE	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

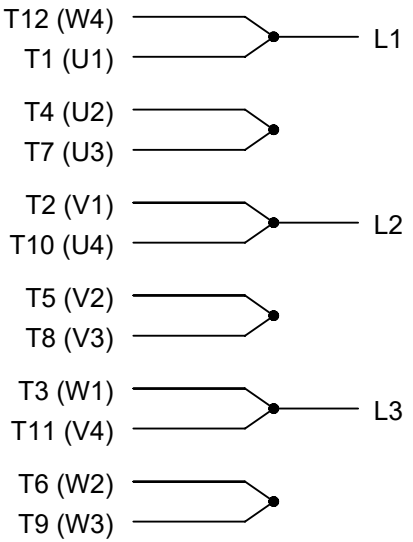
DESCRIPTION
OUTLINE
364/365TSC FR NEMA ODP RS

MATERIAL | PROCESS/FINISH

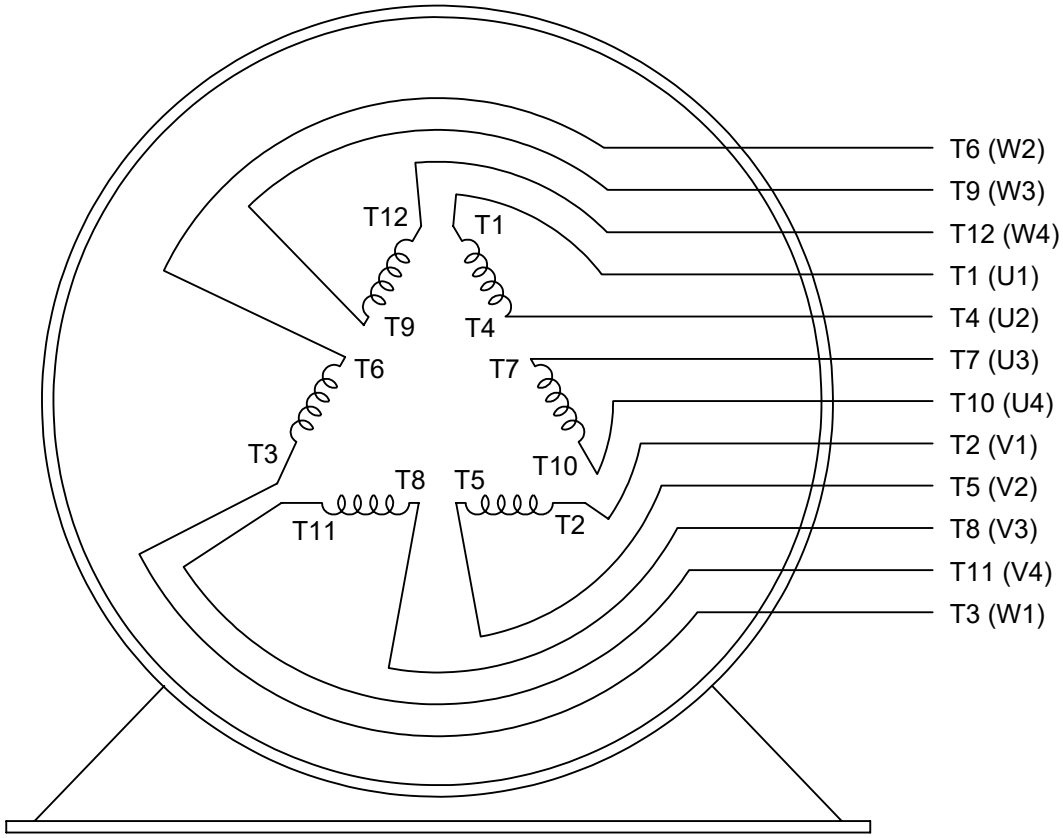
SIZE	DRAWING NUMBER	SHEET
B	SS620749	1 OF 1



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION: L	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: LZ	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 01-12-1994	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS
				DATE: 01-14-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7308AA / SHEET: 1 OF 1

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Data Sheet

Date: 12/24/2020
Customer:
Attention:
Submitted by:

marathon® Motors

364TSTDBD6003

Submittal

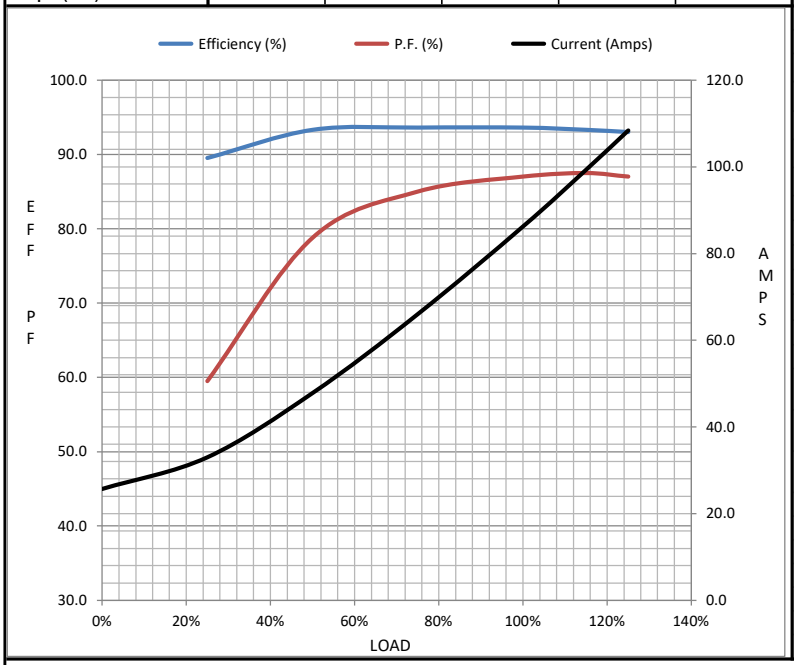
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	25.7	33.0	47.8	66.0	86.2	99.3	108	500	
Torque (ft-lb)	0.00	27.5	55.0	82.5	110	127	138	160	
RPM	3600	3592	3585	3575	3565	3,560	3555	0	
Efficiency (%)		89.5	93.3	93.6	93.6	93.3	93.0		
P.F. (%)	7.0	59.5	78.8	85.0	87.0	87.5	87.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3435	3565	3600
Current (Amps)	500	400	265	86.2	25.7
Torque (ft-lb)	160	135	259	110	0.00

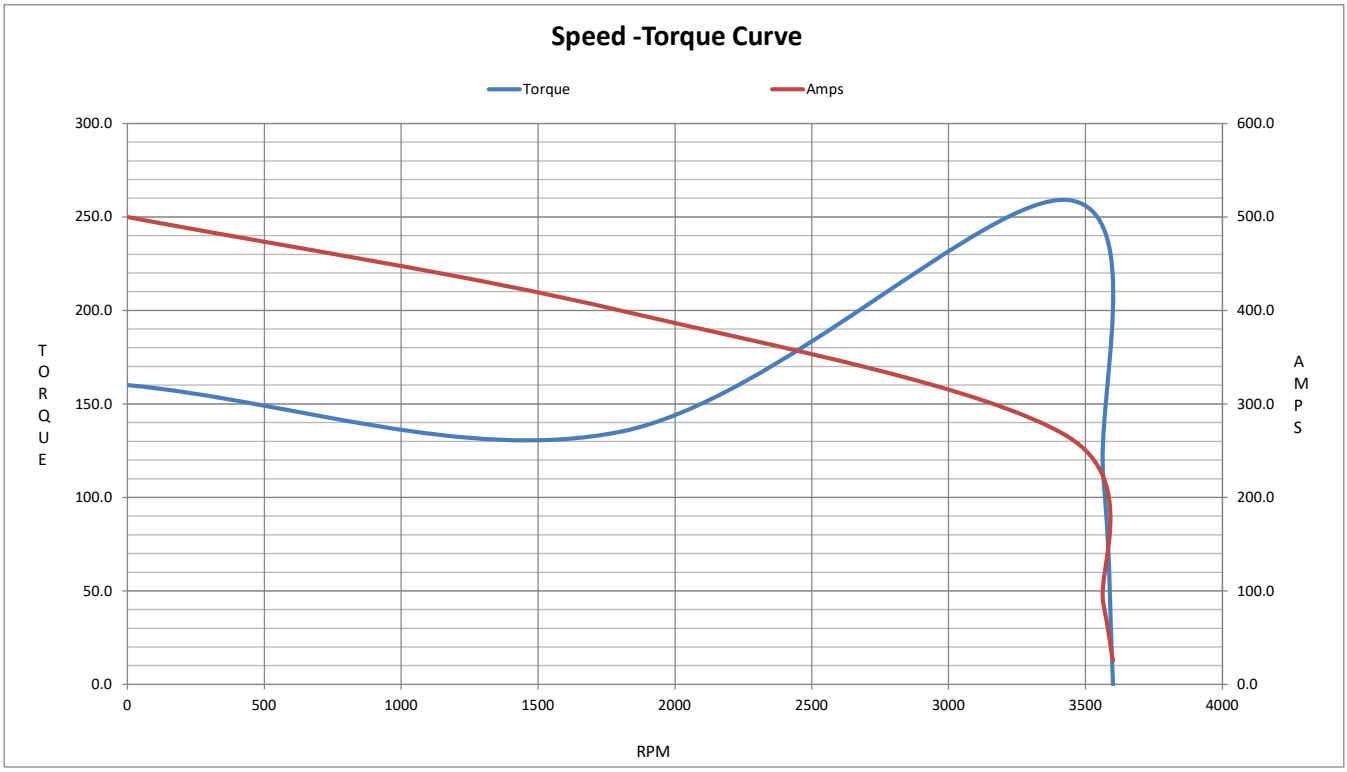


Information Block

HP	75.0	
Sync. RPM	3600	
Frame	364	
Enclosure	DP	
Construction	TDB	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	30	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	8.0	Lb-Ft²
Ref Wdg	HA32252007 NONE	
Sound Pressure @ 1M	75	dBA
VFD Rating	VARIABLE 10:1	
Outline Dwg	SS620749	
Conn. Diag	EE7308AA	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0600	0.0290	0.3400	0.3840	10.4170



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308AA
OUTLINE: SS620749
WINDING: HA32252007 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 364TSTDBD6003
CAT #: GT0283
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	3600	3565	364TSC	DP	TDB	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	192-172/86&166/83	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	93.6	3/4 LD EFF	93.6	1/2 LD EFF	93.3	GTD EFF	ELECT. TYPE
F.L. PF	87.0	3/4 LD PF	85.0	1/2 LD PF	78.8	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	500	160 LB-FT 145%	265 LB-FT 241%	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
75 dBA	84 dBA	8.1 LB-FT²	- LB-FT²	18 SEC.	2	706 LB.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6312	BALL 6312	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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
0.06	0.029	0.34	0.384	10.417	0.150	ODE

*
NOTES
*

INVERTER TORQUE: 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: 0
DATE: 3/9/2021

UL: V - LI,ME-INS,CONST UL REC

FORM: 3531 REV_4 2/27/06