marathon®

General Purpose Motors

Model No: 284TTDBD6069
Catalog No: GT0265-P

General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284TC Frame, DP

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Product Information Packet: Model No: 284TTDBD6069, Catalog No: GT0265-P General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284TC Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**25 & 20 Hp**
Output KW	**18.7 & 14.9 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1775 & 1475 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**284TC**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93.6 & 92.6 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**63/31.5 & 61/30.5 A**
Power Factor	**80**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6210**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

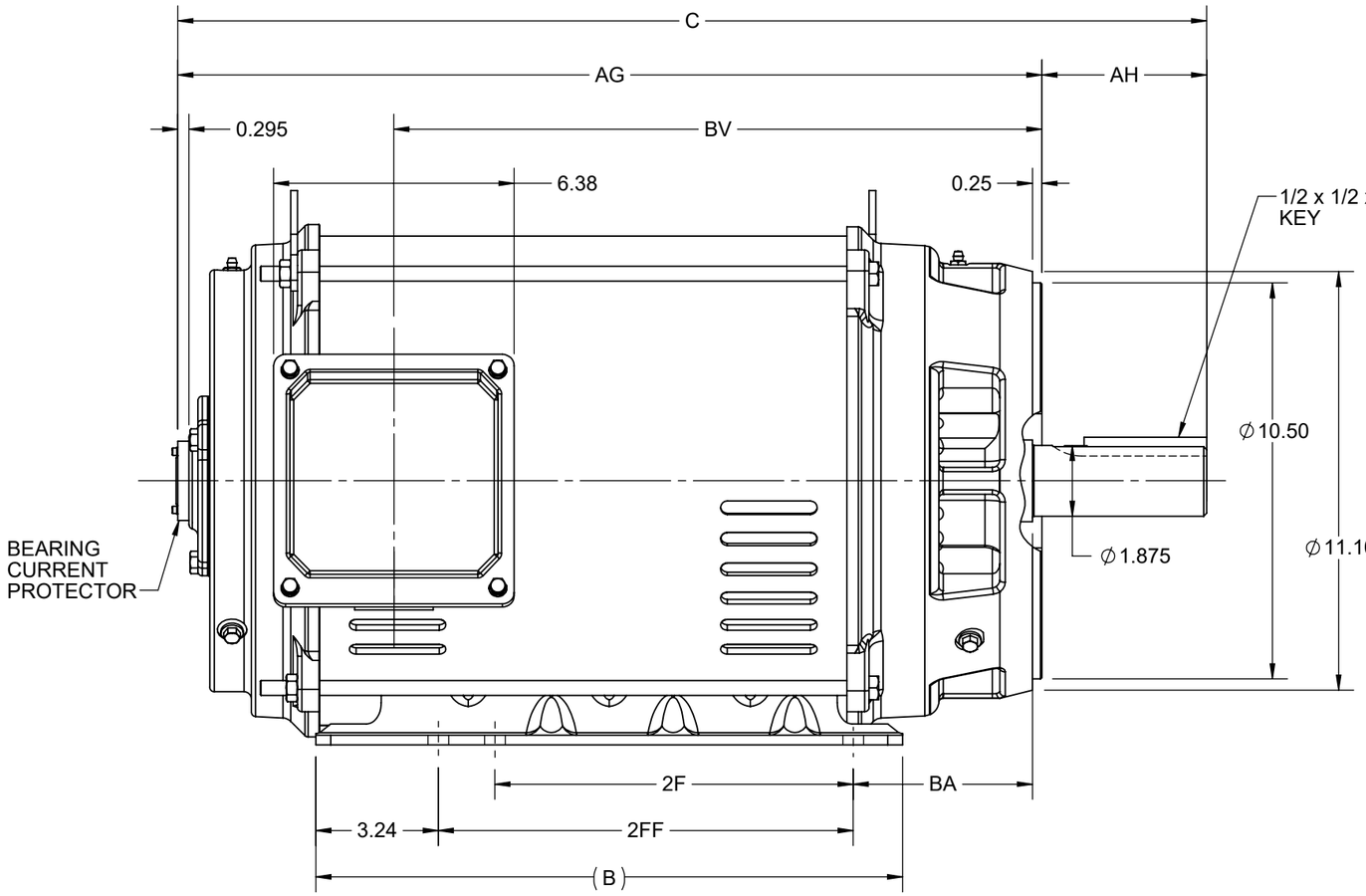
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.3745 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Shaft Diameter	**1.875 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

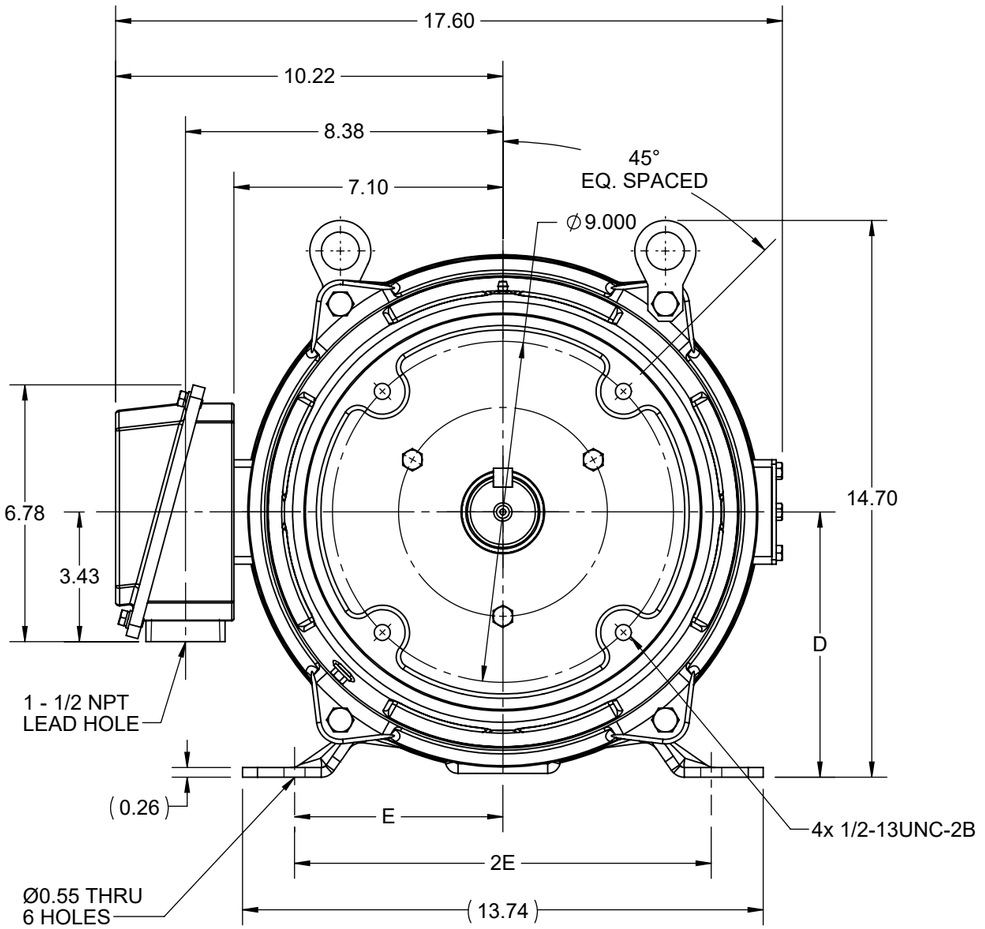
Drawings

Connection Drawing	**EE7308AA**	Outline Drawing	**SS621177-100**

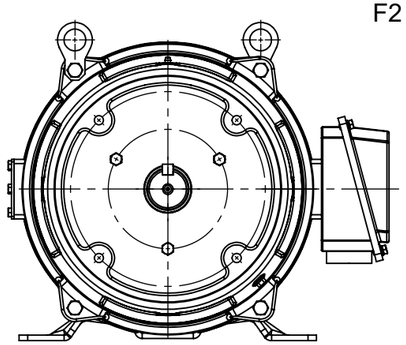
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 16/10/2026

DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	15.55	25.90	7.00	5.50	11.00	9.50	11.00	21.53	4.38	4.75	15.80	F1 OR F2	284TC
200		27.28						22.91			17.18		286TC





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
C	VS	08/06/2025
REQUEST NUMBER	APPROVED BY	DATE
NMR-0238208	VS	08/06/2025

REQUEST NUMBER DESCRIPTION
ADDED F2 MOUNTING PLATE.

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 / 5.1 INCH / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

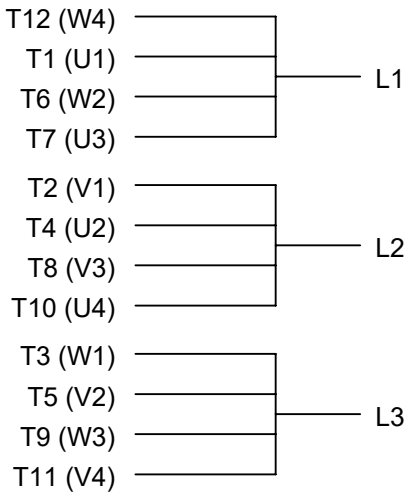
DRAWN BY	SP
DATE	19/05/2021
APPROVED BY	GNK
DATE	19/05/2021
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

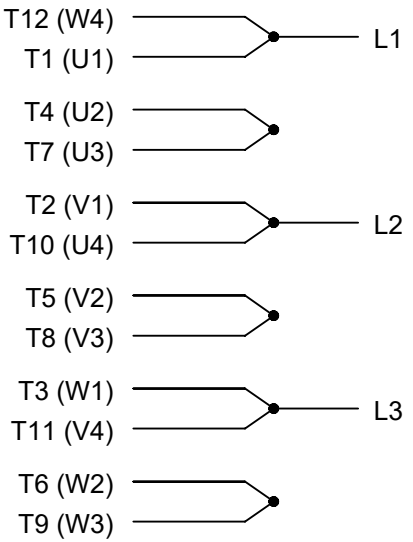
DESCRIPTION
OUTLINE
284/286TC FR NEMA ODP RS BCP ODE

MATERIAL	PROCESS/FINISH

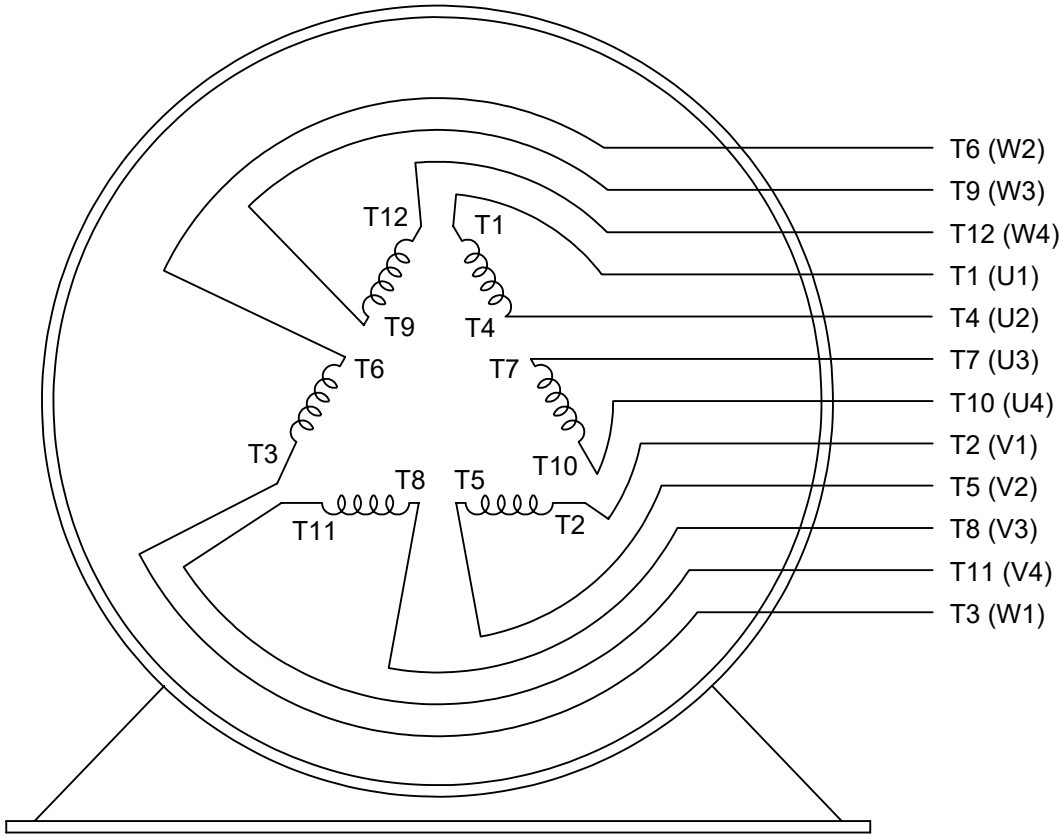
SIZE	DRAWING NUMBER	SHEET
B	SS621177	1 OF 1



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: 8/30/2021
Customer:
Attention:
Submitted by:

marathon® Motors

284TTDBD6069

Submittal

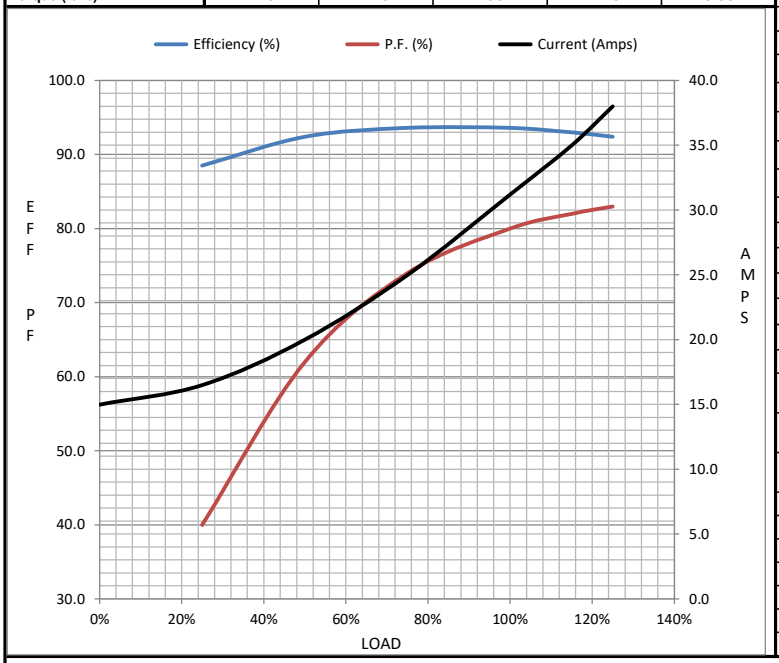
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.0	16.5	20.0	25.0	31.2	35.0	38.0	190	
Torque (ft-lb)	0.00	18.3	36.7	55.2	74.0	85.0	92.8	140	
RPM	1800	1795	1788	1782	1775	1,770	1768	0	
Efficiency (%)		88.5	92.4	93.6	93.6	93.0	92.4		
P.F. (%)	4.5	40.0	62.0	74.0	80.0	82.0	83.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1645	1775	1800
Current (Amps)	190	150	110	31.2	15.0
Torque (ft-lb)	140	118	195	74.0	0.00



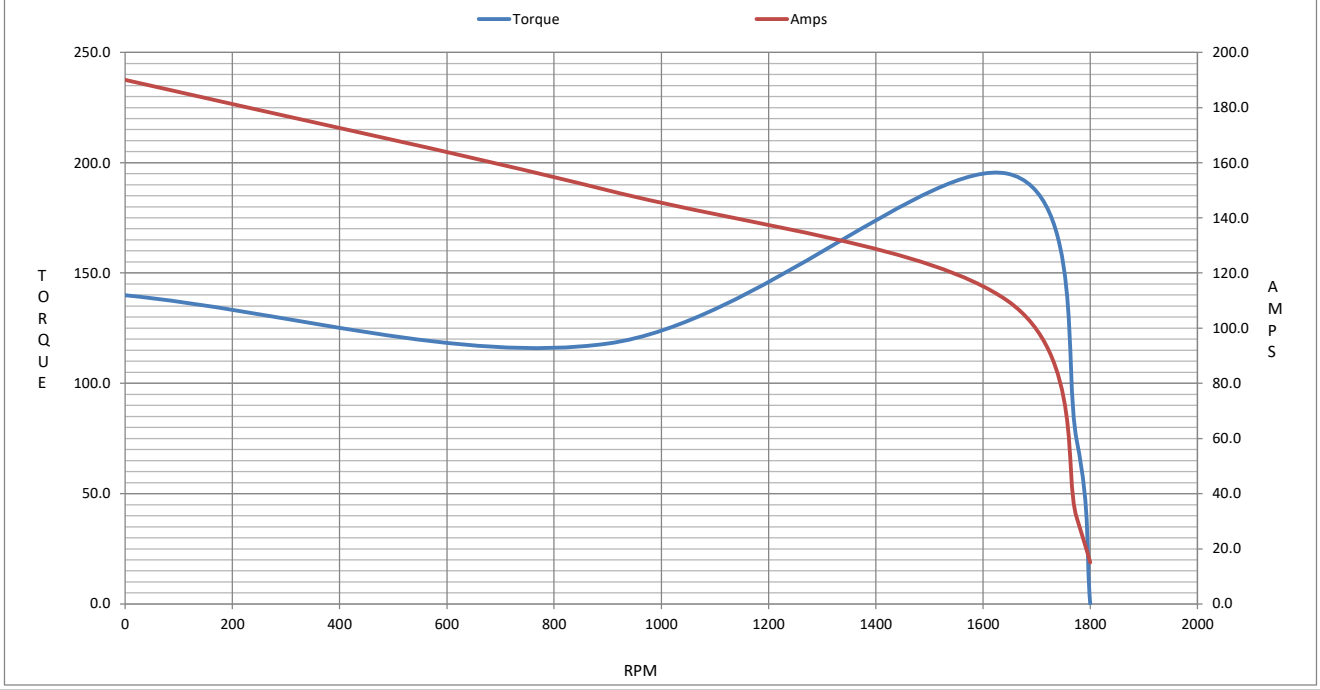
Information Block

HP	25.0
Sync. RPM	1800
Frame	284
Enclosure	DP
Construction	TDB
Voltage	208-230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	50 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	4.2 Lb-Ft²
Ref Wdg	HA31804016 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1
Outline Dwg	SS621177-100
Conn. Diag	EE7308AA
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.2270	0.1320	0.8740	1.0100	18.9460

Speed -Torque Curve



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

marathon® Motors

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308AA
OUTLINE: SS621177-100
WINDING: HA31804016 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 284TTDBD6069
CAT #: GT0265-P
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
25	18.7	1800	1775	284TC	DP	TDB	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	66-62.5/31&60/30	PWS (LV ONLY) & YDRUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	93.6	3/4 LD EFF	93.6	1/2 LD EFF	92.4	GTD EFF	ELECT. TYPE	
F.L. PF	80.0	3/4 LD PF	74.0	1/2 LD PF	62.0	93.0	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
74.0 LB-FT	190	140 LB-FT 189%	195 LB-FT 264%	50	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
75 dBA	84 dBA	4.2 LB-FT²	328 LB-FT²	15 SEC.	2	350 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	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6311	6210						

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
0.227	0.132	0.874	1.01	18.946	0.150	ODE

* NOTES *

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:
DATE: 8/30/2021

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

FORM: 3531 REV_4 2/27/06