marathon®

General Purpose Motors

Model No: 256TTDBD6034
Catalog No: GT2362

General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 256T Frame, DP

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Product Information Packet: Model No: 256TTDBD6034, Catalog No: GT2362 General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 256T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**20 & 15 Hp**
Output KW	**14.9 & 11.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1770 & 1475 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**256T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93 & 92.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**48.5/24.3 & 45/22.4 A**
Power Factor	**83.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6208**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**12**	Number of Speeds	**1**

Technical Specifications

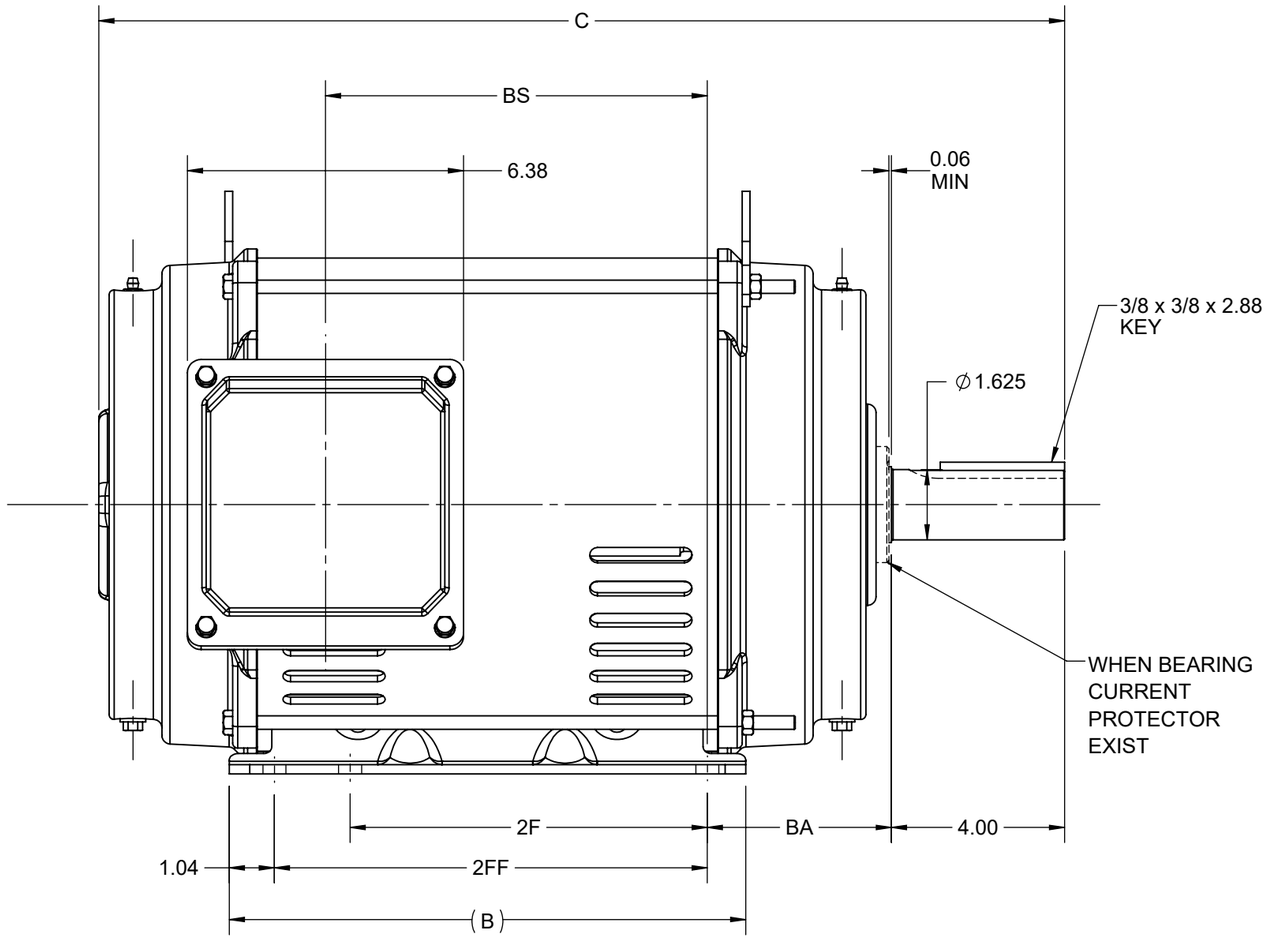
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.51 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Shaft Diameter	**1.625 in**
Assembly/Box Mounting	**F2/F1 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

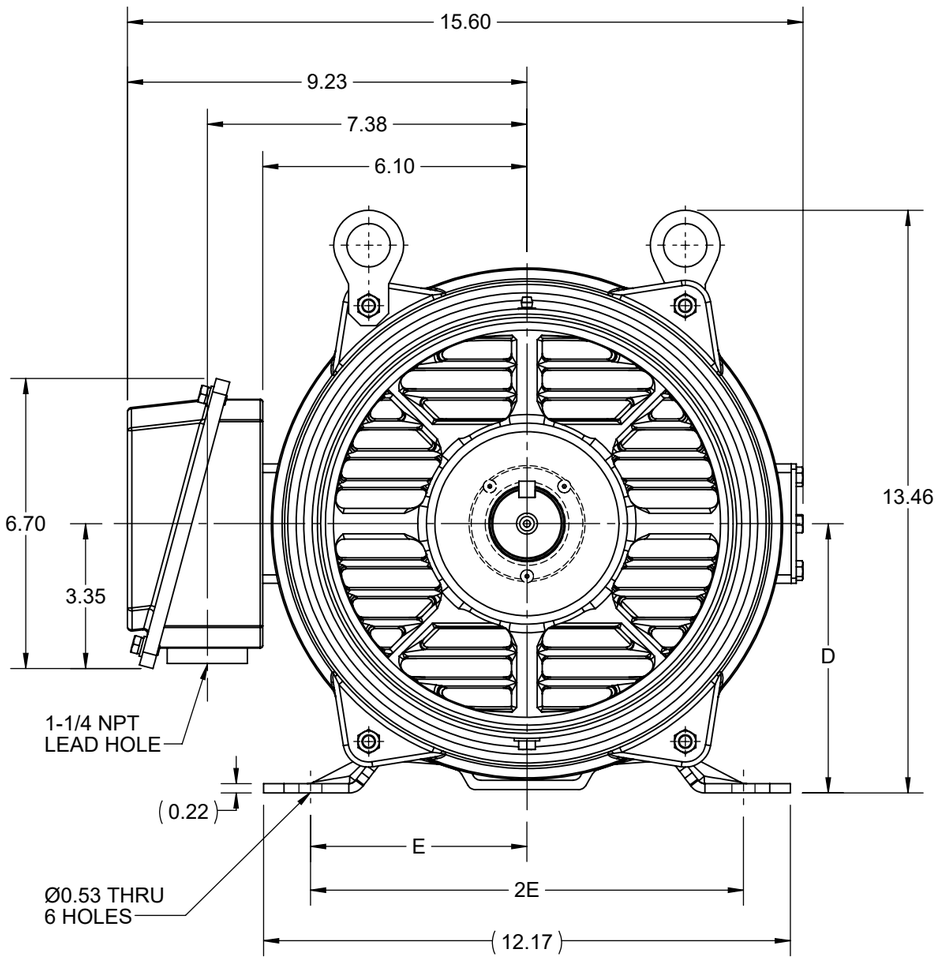
Drawings

Connection Drawing	**EE7308K**	Outline Drawing	**SS620685-200**

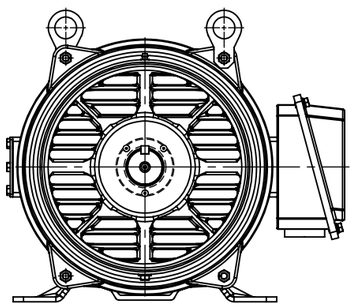
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	11.93	22.31	6.25	5.00	10.00	8.25	10.00	4.25	8.82	F1 OR F2	254T
200		23.88							10.45		256T





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	MN	09/04/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023941	VS	09/04/2025

REQUEST NUMBER DESCRIPTION
UPDATED DRAWING VIEW

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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 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	XZ
DATE	25/02/2016
APPROVED BY	
DATE	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

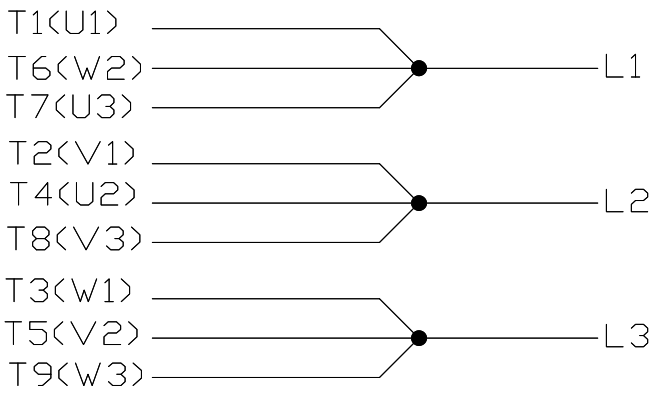
DESCRIPTION
OUTLINE
254/256T FR NEMA ODP RS

MATERIAL | PROCESS/FINISH

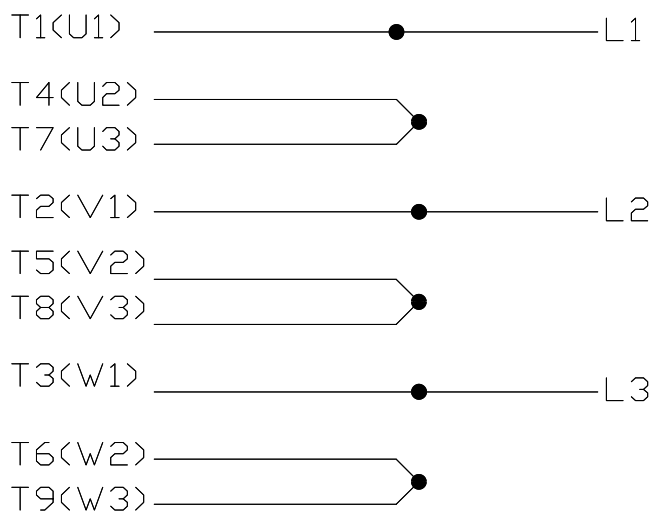
SIZE	DRAWING NUMBER	SHEET
B	SS620685	1 OF 1

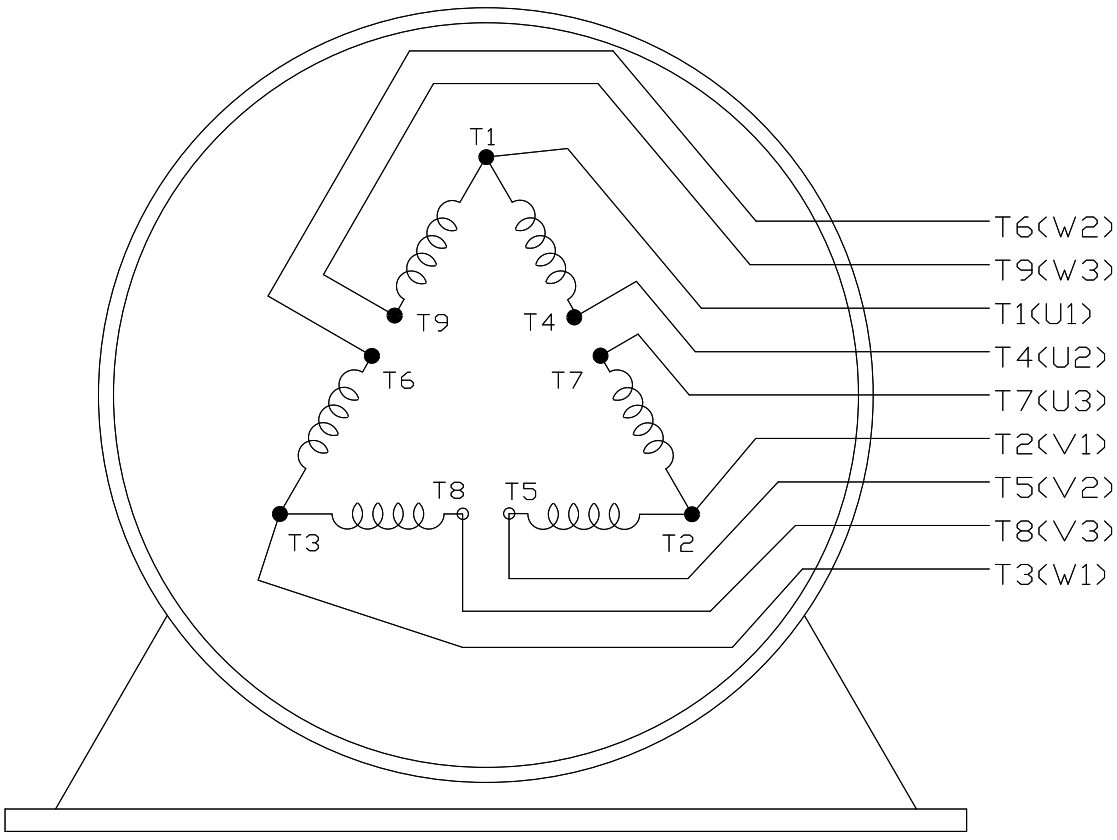
Uncontrolled Copy

LOW VOLTAGE



HIGH VOLTAGE





VIEW OF TERMINAL END

DRAWING REVISION: F	REVISION BY: SB	REV DATE/ © DATE: 08/01/2025	DRAWN BY: PGK	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025	DATE: 06/04/1997	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED			APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL DELTA CON. - 3ø - 9 LEADS
			DATE: 06/15/1997	
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7308K / SHEET: 1 OF 1

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

Data Sheet

Date: 9/29/2020
Customer:
Attention:
Submitted by: VINAYAK YERATE

marathon® Motors

256TTDBD6034

Submittal

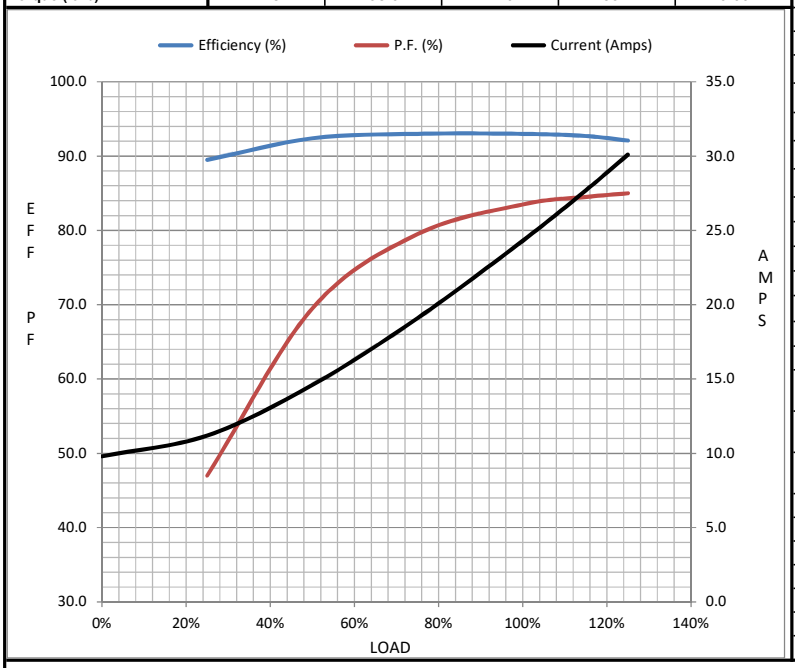
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.8	11.2	14.6	19.1	24.3	27.7	30.1	144	
Torque (ft-lb)	0.00	14.5	29.5	44.3	59.4	68.4	74.5	118	
RPM	1800	1793	1785	1778	1770	1,765	1762	0	
Efficiency (%)		89.5	92.4	93.0	93.0	92.7	92.1		
P.F. (%)	5.0	47.0	69.5	79.5	83.5	84.5	85.0	43.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1628	1770	1800
Current (Amps)	144	129	82.0	24.3	9.8
Torque (ft-lb)	118	98.0	146	59.4	0.00



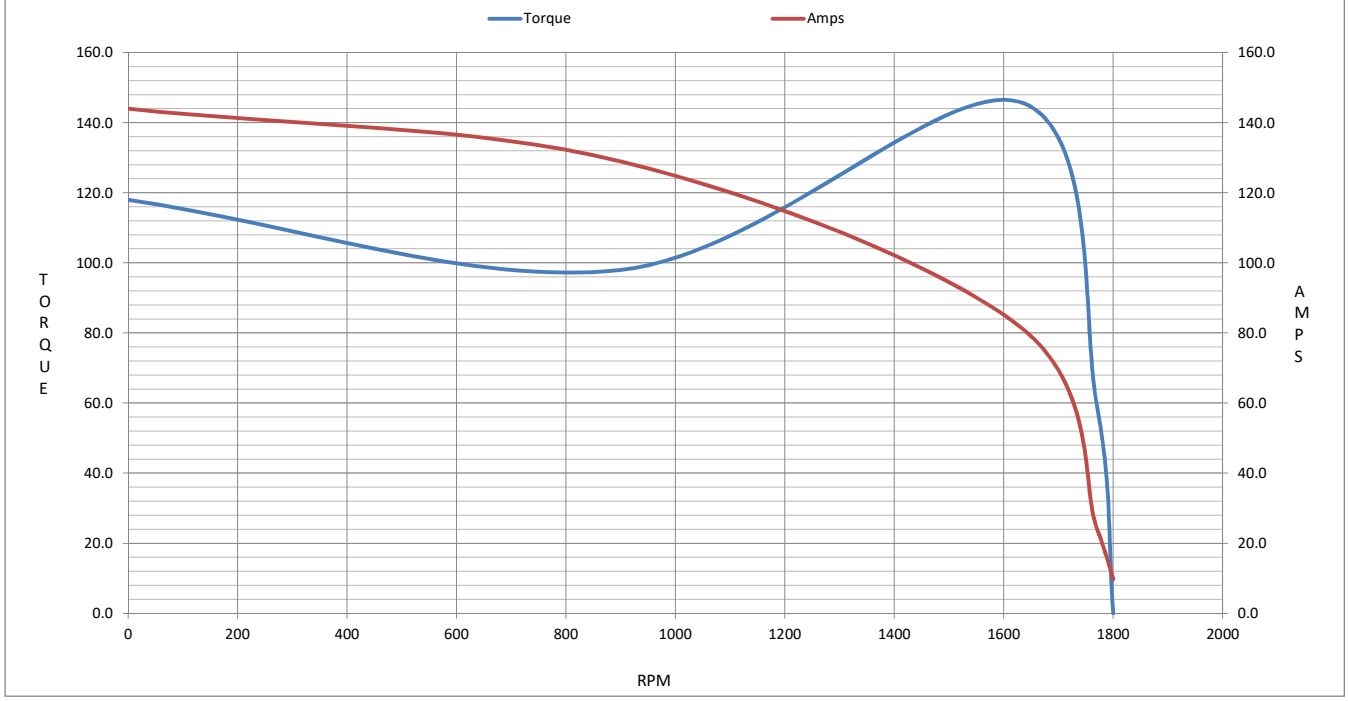
Information Block

HP	20.0
Sync. RPM	1800
Frame	256
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	45 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	2.80 Lb-Ft²
Ref Wdg	HA31604020 NONE
Sound Pressure @ 1M	74 dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1
Outline Dwg	SS620685-200
Conn. Diag	EE7308K
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3380	0.1920	1.0680	1.2350	27.3210

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: EE7308K
OUTLINE: SS620685-200
WINDING: HA31604020 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 256TTDBD6034
CAT #: N/A
CUSTOMER PART #:
MOUNTING: F2/F1 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
20	14.9	1800	1770	256T	DP	TDB	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	53-48.5/24.3&45/22.4	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	93.0	1/2 LD EFF	92.4	GTD EFF	ELECT. TYPE
F.L. PF	83.5	3/4 LD PF	79.5	1/2 LD PF	69.5	92.4	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
59.4 LB-FT	144	118 LB-FT 199%	146 LB-FT 246%	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
74 dBA	83 dBA	2.80 LB-FT²	125 LB-FT²	20 SEC.	2	325 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	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
6309	6208						

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
0.338	0.192	1.068	1.235	27.321	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: VINAYAK YERATE
DATE: 9/29/2020

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

FORM: 3531 REV_4 2/27/06