marathon®

Vertical Pump Motors

Model No: 365TTDS16016
Catalog No: M745

Vertical Pump Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 365HPV Frame, DP

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Product Information Packet: Model No: 365TTDS16016, Catalog No: M745 Vertical Pump Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 365HPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**100 & 75 Hp**
Output KW	**75.0 & 56.0 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3550 & 2962 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**365HPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**94.1 & 94.1 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**230/115 & 210/105 A**
Power Factor	**86**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**7312**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

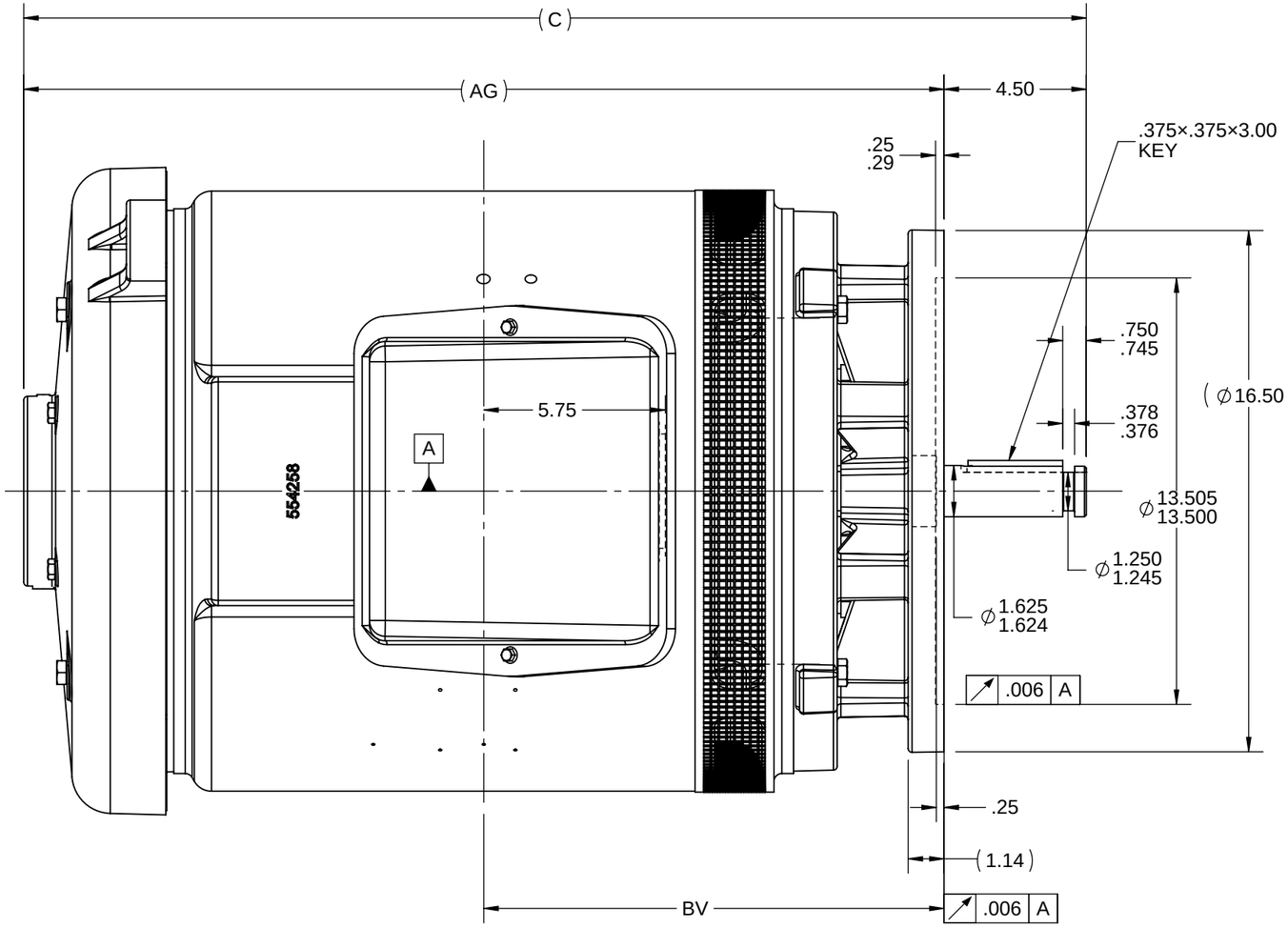
Technical Specifications

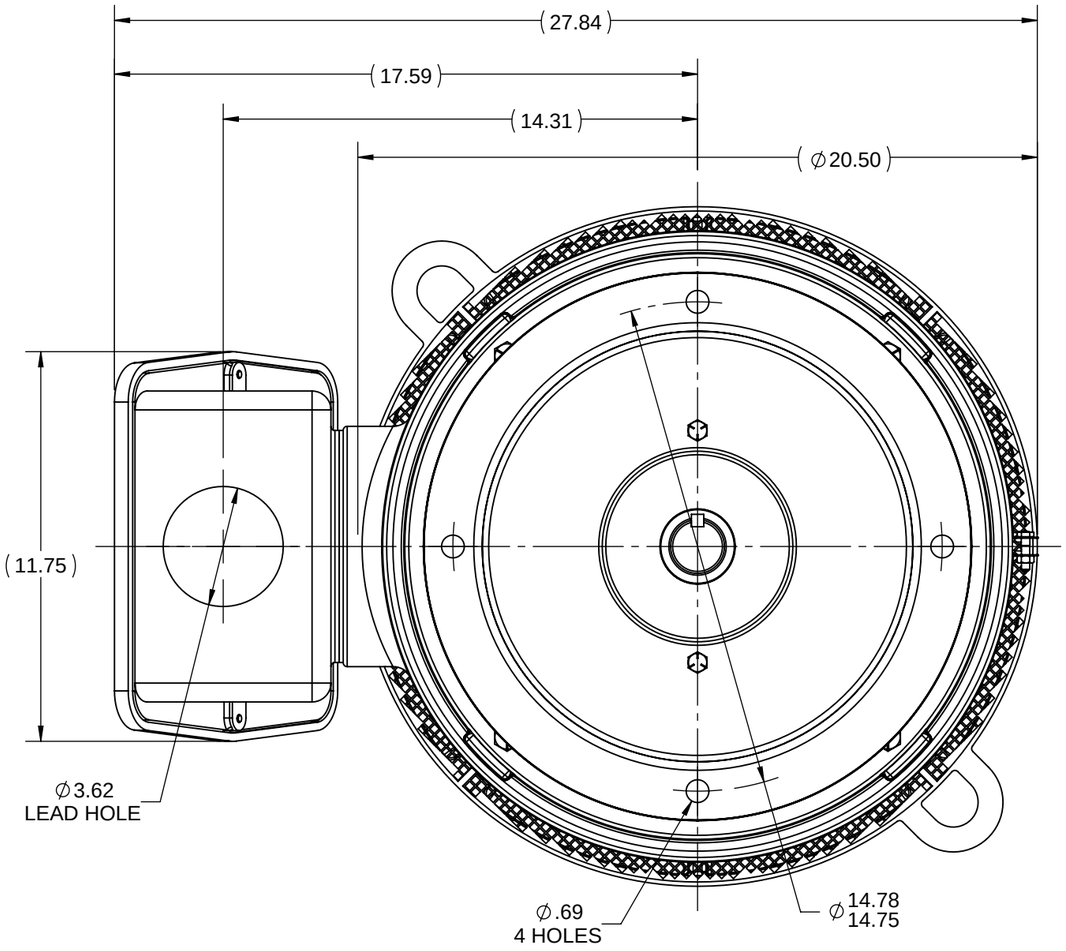
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.062 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Duplex Tandem Angular Contact**	Frame Material	**Cast Iron**
Shaft Type	**HP**	Overall Length	**33.65 in**
Frame Length	**19.62 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**4.5 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7308K**	Outline Drawing	**SS554645-1962**

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NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM SHAFT EXTENSION END OF MOTOR.

DASH	FRAME	C	AG	BV
1962	360HP	33.65	29.15	14.58

DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SV	05/27/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026396	RMS	05/27/2026

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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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	TJW
DATE	10-04-2011
APPROVED BY	LMC
DATE	10-05-2011
REFERENCE	SS503458
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
OUTLINE
360HP FR. - DR.PR. - P'BASE

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS554645	1 OF 1

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LOW VOLTAGE

T1(U1)
T6(W2)
T7(U3) — L1

T2(V1)
T4(U2)
T8(V3) — L2

T3(W1)
T5(V2)
T9(W3) — L3

HIGH VOLTAGE

T1(U1) — L1

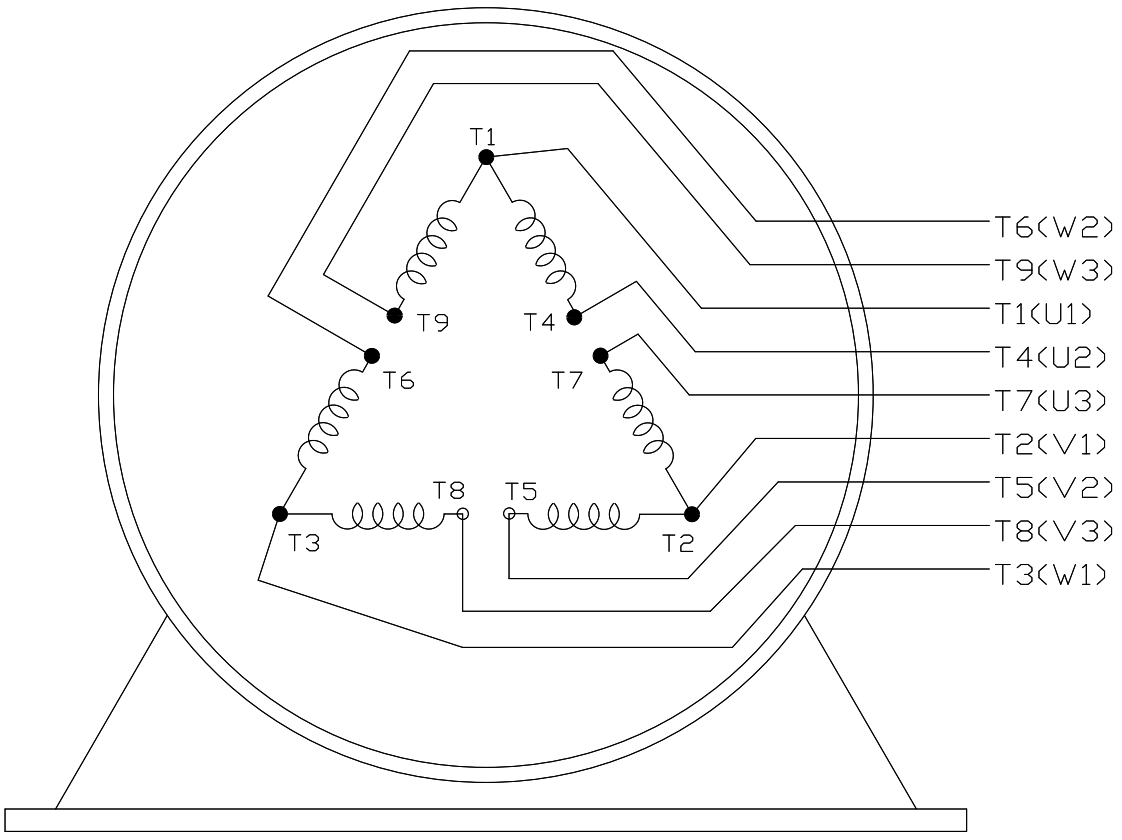
T4(U2)
T7(U3)

T2(V1) — L2

T5(V2)
T8(V3)

T3(W1) — L3

T6(W2)
T9(W3)



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: 19-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

365TTDS16016

Submittal

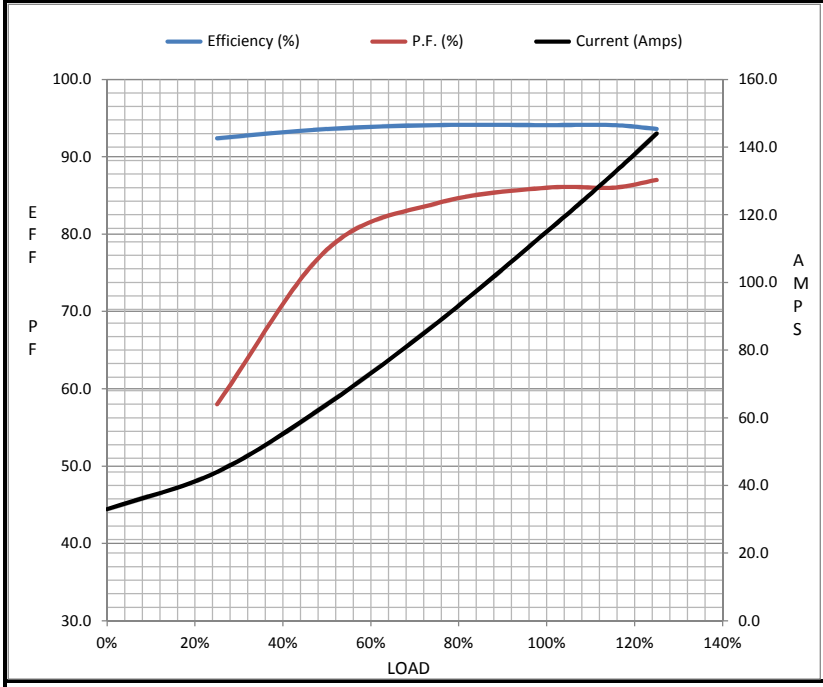
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	33.0	44.0	64.0	88.0	115	132	144	711	
Torque (ft-lb)	0.00	37.0	73.0	111	148	170	186	210	
RPM	3600	3590	3580	3565	3550	3,545	3540	0	
Efficiency (%)		92.4	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	9.0	58.0	78.0	84.0	86.0	86.0	87.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1986	3300	3550	3600
Current (Amps)	711	650	434	115	33.0
Torque (ft-lb)	210	205	387	148	0.00



Information Block

HP	100.0
Sync. RPM	3600
Frame	365
Enclosure	DP
Construction	TDS
Voltage	230/460#190/38(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	1,000 feet
Rotor/Shaft wk²	7.7 Lb-Ft²
Ref Wdg	T365247 NONE
Sound Pressure @ 1M	80 dBA
VFD Rating	NONE
Outline Dwg	B-SS554645-1962
Conn. Diag	A-EE7308K

Additional Specifications:

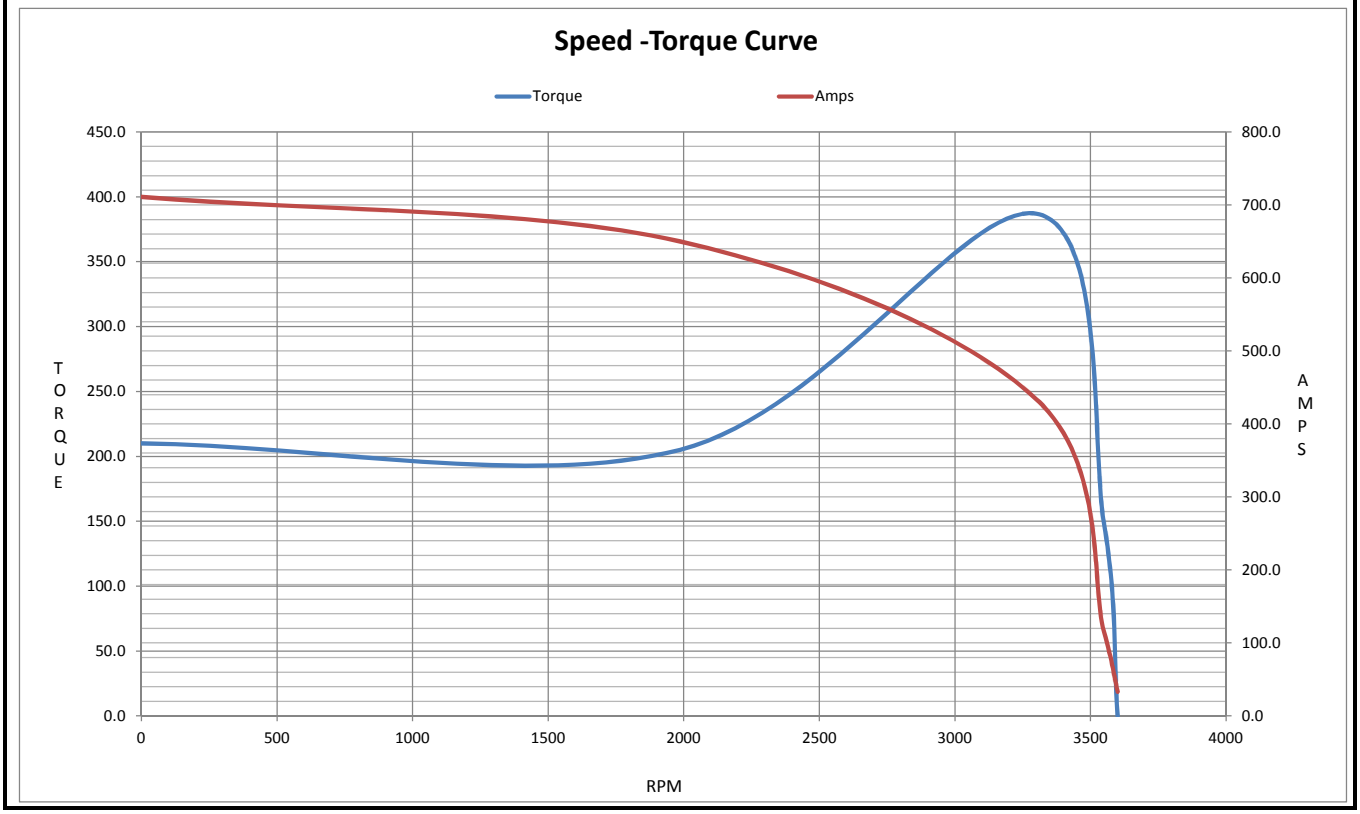
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0430	0.0310	0.2580	0.2300	7.6110

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	365TTDS16016 AN	**WINDING#:**	T365247 NONE 1
CONN. DIAGRAM:	A-EE7308K	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS554645-1962		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75&56	3600	3550&2962	365HPV	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	230/115&210/105	ACROSS THE LINE	CONTINUOUS	F1	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&94.1	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&85	3/4 LOAD PF: 84	1/2 LOAD PF: 78	93.6	SQ CAGE IND RUN	66 / 33

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	1420 / 710	210 LB-FT 142	387 LB-FT 261	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	7.7 LB-FT^2	- LB-FT^2	15 SEC.	-	825 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	DUPLEX TANDEM ANGULAR CONTACT	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	7312 2						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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FORM 3531 REV.3 02/07/99
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