

Severe Duty Motors

Model No: 215THFCD19006

Catalog No: W538B

Severe Duty Motor, 10 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 215T Frame, TEFC

Product Information Packet: Model No: 215THFCD19006, Catalog No: W538B Severe Duty Motor, 10 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 215T Frame, TEFC

Nameplate Specifications

Phase	3	Output HP	10 Hp
Output KW	7.5 kW	Voltage	575 V
Speed	3518 r/min	Synchronous RPM	3600 r/min
Service Factor	1.15	Frame	215T
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	90.2 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	9.5 A
Power Factor	88	Duty	Continuous
Insulation Class	H	Design Code	B
KVA Code	H	Drive End Bearing Size	6308
Opp Drive End Bearing Size	6208	UL	Listed
CSA	Y	CE	Y
IP Code	56	Number of Speeds	1
Hazardous Location	DIVISION 2 T2B		

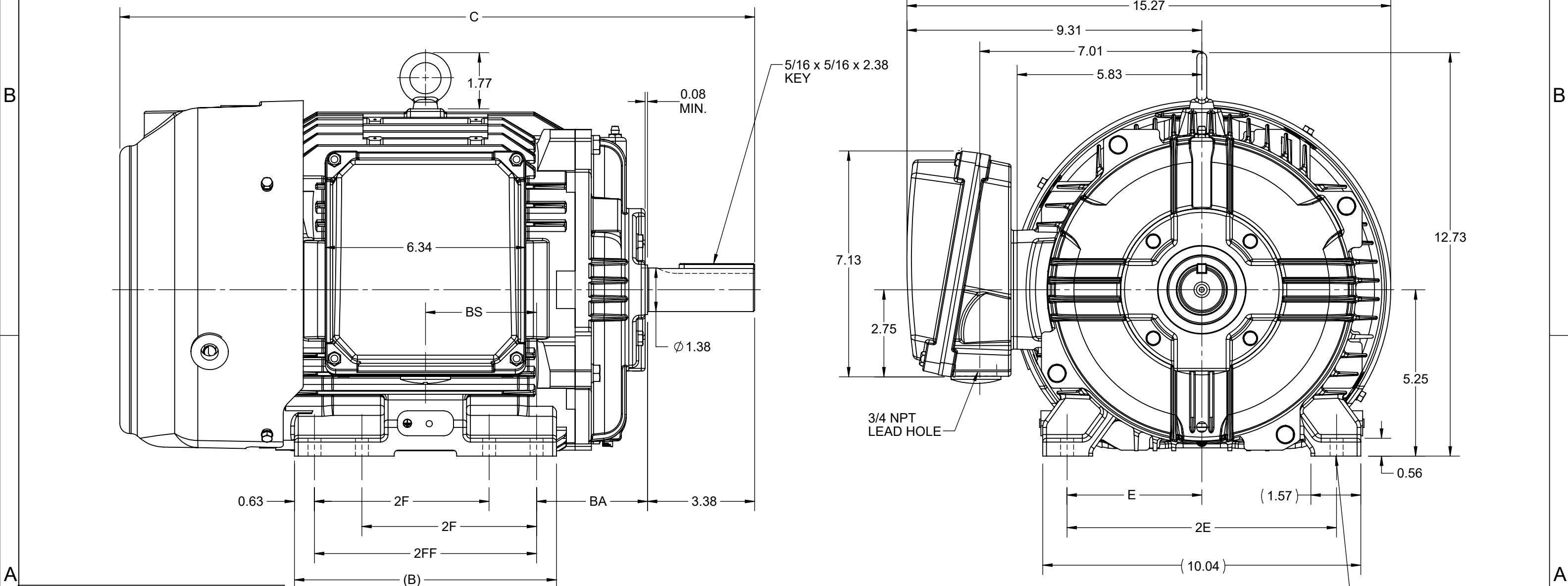
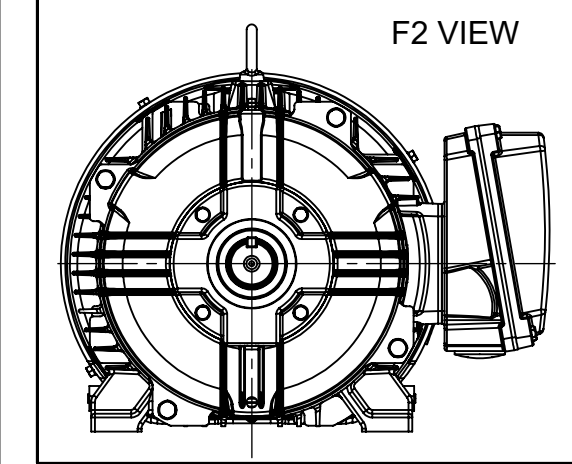
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	1.218 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.375 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 2:1/Variable 10:1

Drawings

Connection Drawing	EE7300	Outline Drawing	SS810116-200
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4					3						
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME	
100	6.76	18.53	4.25	8.50	---	5.50	3.50	2.75	F1 OR F2	213T	
200	8.26	20.03			5.50	7.00		3.50		213/215T	



DRAWING REVISION E	REVISION BY SB	REV DATE/© DATE 07/23/2025
REQUEST NUMBER CR-0023556	APPROVED BY SBD	DATE 07/23/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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DRAWN BY BISWA		marathon™			
DATE 24/12/2018					
APPROVED BY SBD		DESCRIPTION OUTLINE 213/215T FR NEMA- SD & IEEE841			
DATE 24/12/2018					
REFERENCE		MATERIAL	PROCESS/FINISH		
THIRD ANGLE PROJECTION		SIZE		DRAWING NUMBER	SHEET
		B			
		SS810116		1 OF 1	

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

IF MOTOR HAS 9 LEADS

T1(U1)

T1(U1)

T1(U1)

L1

T2(V1)

T2(V1)

T2(V1)

L2

T3(W1)

T3(W1)

T3(W1)

L3

IF MOTOR HAS 6 LEADS

T1(U1)

T1(U1)

L1

T2(V1)

T2(V1)

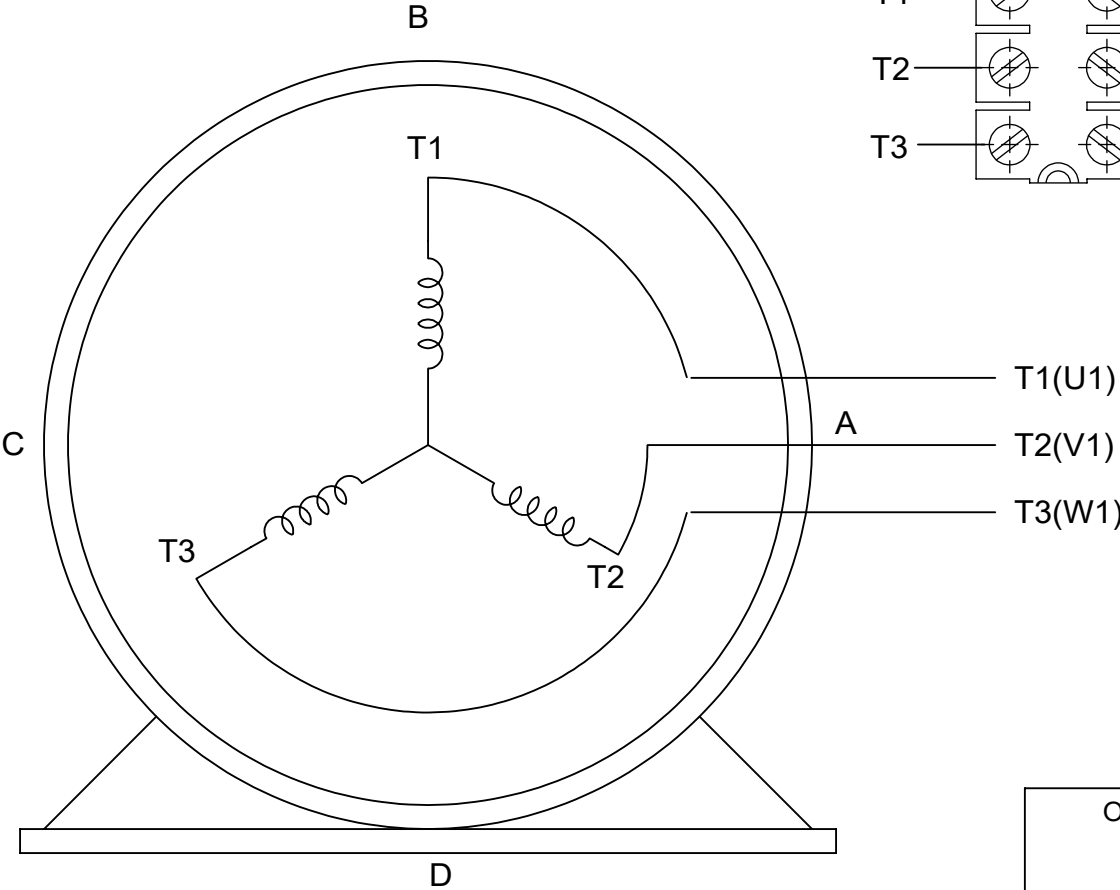
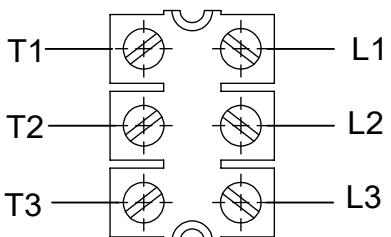
L2

T3(W1)

T3(W1)

L3

A-9806 DECAL



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION	
L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AD	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

marathon™		
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1

Data Sheet

Date: 5/6/2020
 Customer: _____
 Attention: _____
 Submitted by: _____

marathon
 Motors

215THFCD19006

Submittal

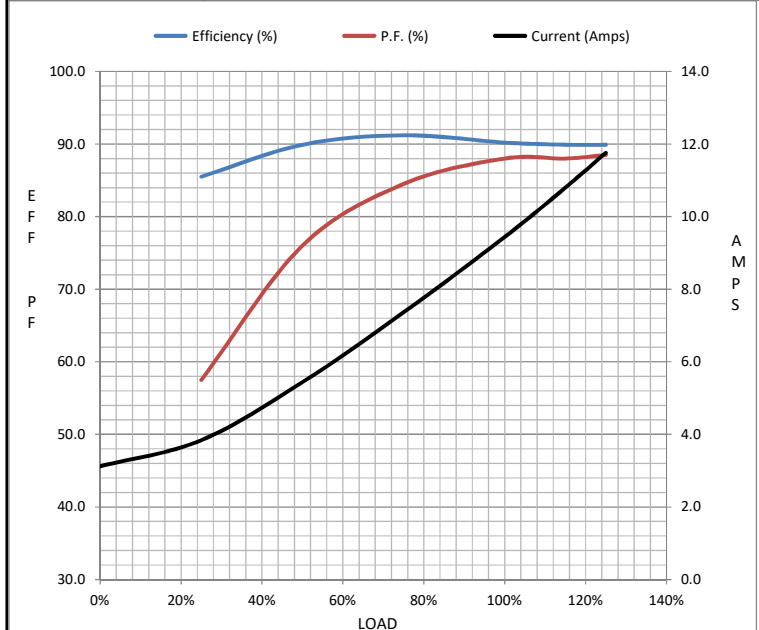
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.1	3.8	5.4	7.4	9.4	10.8	11.8	63.2	
Torque (ft-lb)	0.00	3.7	7.4	11.1	14.9	17.3	18.9	28.0	
RPM	3600	3580	3560	3540	3518	3,502	3492	0	
Efficiency (%)		85.5	89.9	91.2	90.2	89.9	89.9		
P.F. (%)	12.9	57.5	76.0	84.5	88.0	88.0	88.5	45.0	

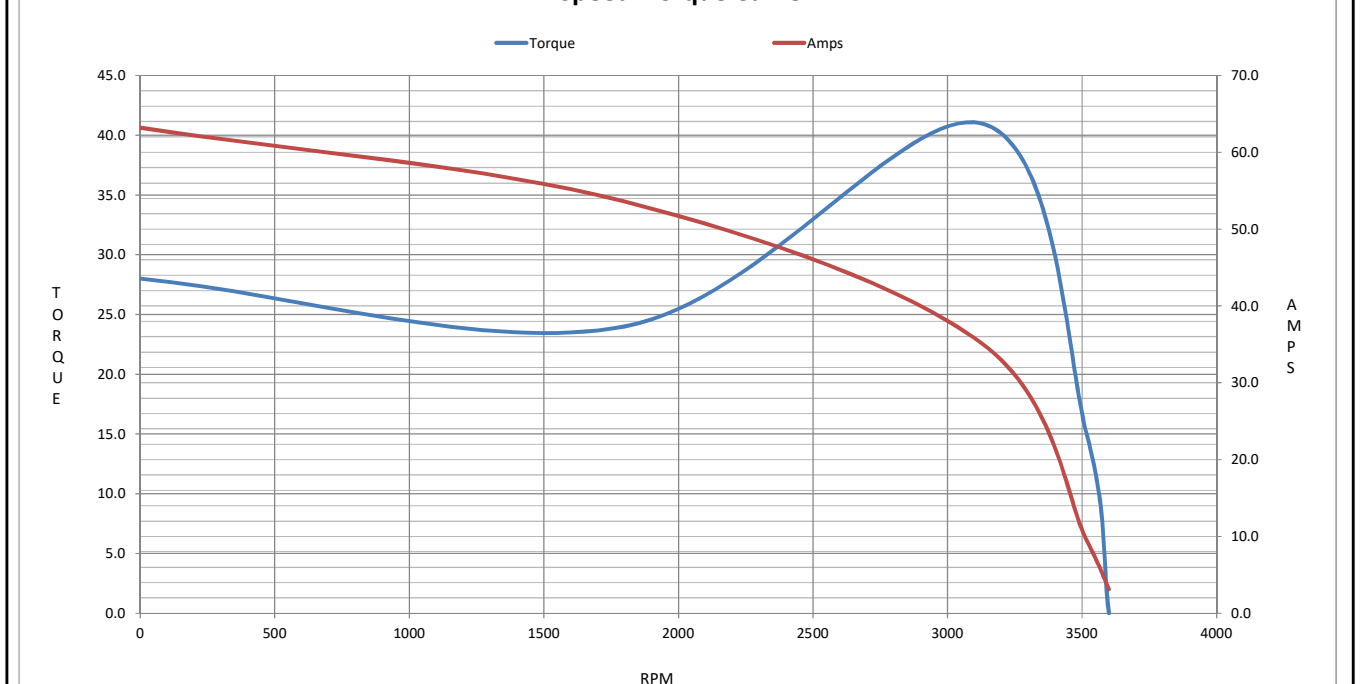
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3125	3518	3600
Current (Amps)	63.2	53.6	35.2	9.4	3.1
Torque (ft-lb)	28.0	24.0	41.0	14.9	0.00



Information Block				
HP		10.0		
Sync. RPM		3600		
Frame		215		
Enclosure		TEFC		
Construction		TFC		
Voltage		575	V	
Frequency		60	Hz	
Design		B		
LR Code letter		H		
Service Factor		1.15		
Temp Rise @ FL		55	° C	
Duty		CONT		
Ambient		40	° C	
Elevation		3,300	feet	
Rotor/Shaft wk²		0.60	Lb-Ft²	
Ref Wdg		HA31322010 NONE		
Sound Pressure @ 1M		72	dBA	
VFD Rating		CONSTANT 2:1/VARIABLE 10:1		
Outline Dwg		SS810116		
Conn. Diag		EE7300		
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.2380	0.8340	3.3100	2.2940	108.2750

Speed -Torque Curve





DATA VOLTS: 575

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7300
 REFERENCE MODEL #: 215THFCD19006
 OUTLINE: SS810116
 CAT #: W538B
 WINDING: HA31322010 NONE 3
 MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	3600	3518	215T	TEFC	TFC	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	575	9.5	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	91.2	1/2 LD EFF	89.9	GTD EFF	89.5	ELECT. TYPE	
F.L. PF	88.0	3/4 LD PF	84.5	1/2 LD PF	76.0			SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
14.9 LB-FT	63.2	28.0 LB-FT 188%	41.0 LB-FT 275%	55

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.
72 dBA	81 dBA	0.60 LB-FT²	18 LB-FT²	15 SEC.	2	200 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	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE							
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON
6308 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)
1.934375	1.303125	5.171875	3.584375	169.1796875	0.080

* N O T E S *	If Inverter equals NONE, contact factory for further information	
	INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE PPR	

PREPARED BY: _____ DATE: 5/13/2020	BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE HZ:
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FORM: 3531 REV_4 2/27/06
 ** Subject to change without notice.