50 Hz Motors

Model No: 213TTDW7053
Catalog No: H955

50 Hz Motor, 7.50 HP, 3 Ph, 50 Hz, 190-200-208/380-400-415 V, 1500 RPM, 213T Frame, DP

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Product Information Packet: Model No: 213TTDW7053, Catalog No: H955 50 Hz Motor, 7.50 HP, 3 Ph, 50 Hz, 190-200-208/380-400-415 V, 1500 RPM, 213T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**7.50 Hp**
Output KW	**5.6 kW**	Voltage	**190-200-208/380-400-415 V**
Speed	**1460 r/min**	Synchronous RPM	**1500 r/min**
Service Factor	**1.15**	Frame	**213T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**87.7 %**	Ambient Temperature	**40 °C**
Frequency	**50 Hz**	Current	**23.2-23.0-22.6/11.6-11.5-11.3 A**
Power Factor	**79**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	Drive End Bearing Size	**6307**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

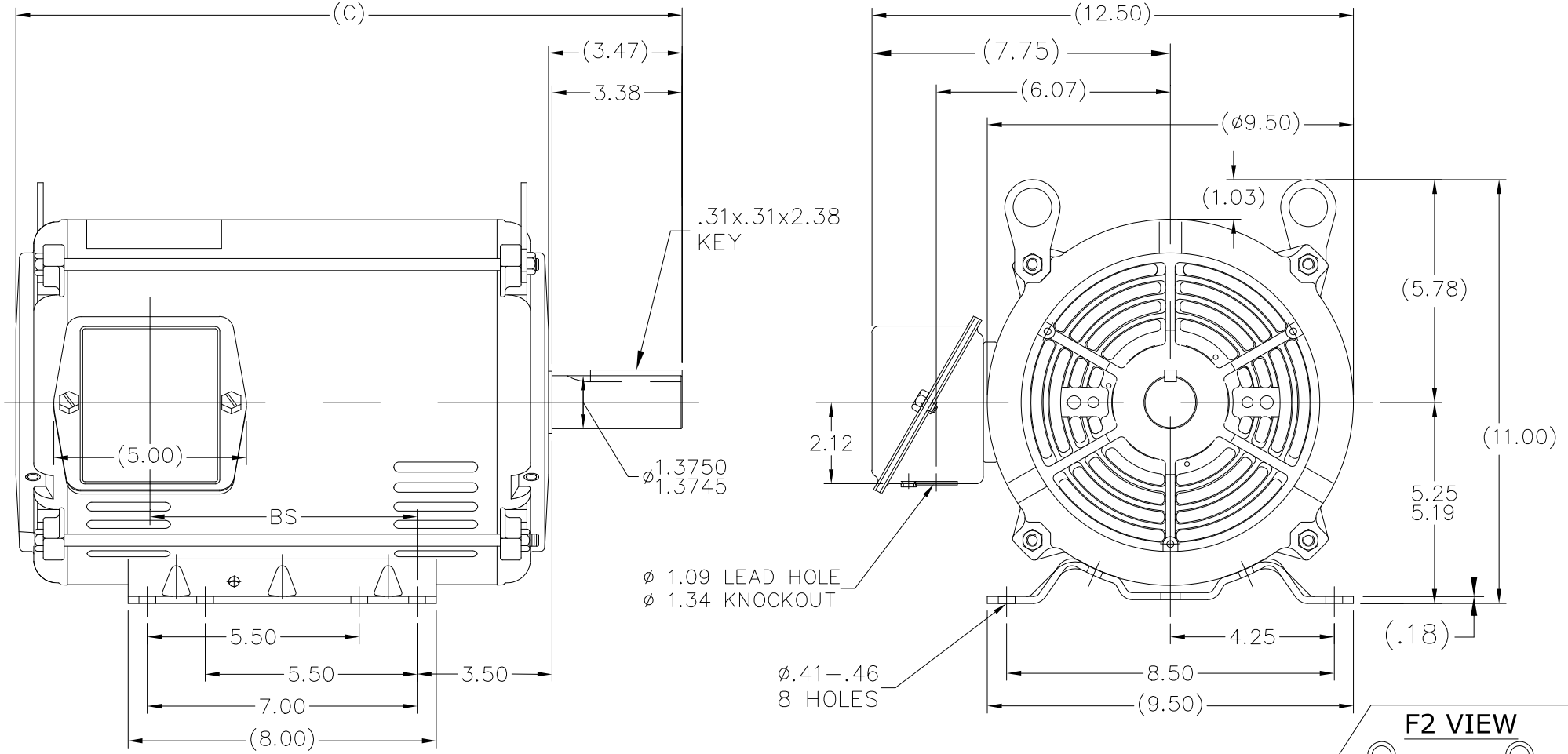
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**1.39 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**17.3 in**
Frame Length	**11.15 in**	Shaft Diameter	**1 3/8 in**
Shaft Extension	**3.47 in**	Assembly/Box Mounting	**F1/F2 Capable**

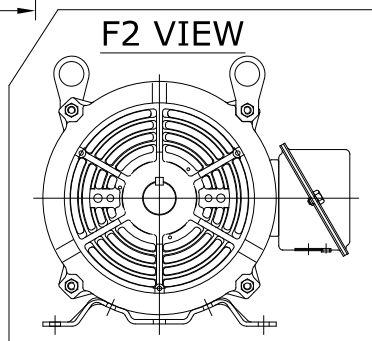
Drawings

Connection Drawing	**A-EE7358**	Outline Drawing	**A-SS86500-1115**

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NOTES:
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.
3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED.)

DASH	FR.	C	BS	MOUNTING
1115	213/15T	17.30	6.93	F1/F2
1240	213/15T	18.55	8.18	F1 ONLY

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
U	SB	04/22/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026044	RMS	04/22/2026

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

DRAWN BY	SMC
DATE	04/13/1993
APPROVED BY	DRN
DATE	04/13/1993
REFERENCE	
THIRD ANGLE PROJECTION	

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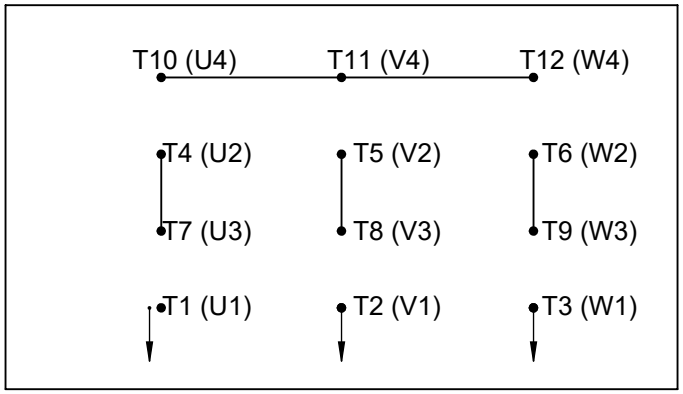
DESCRIPTION
OUTLINE
210 FR - BB - TS DR. PR.

MATERIAL	PROCESS/FINISH

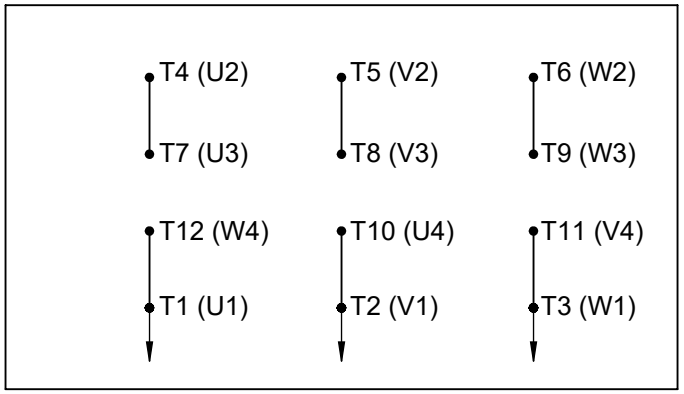
SIZE	DRAWING NUMBER	SHEET
A	SS86500	1 OF 1

HIGH VOLTAGE

WYE START

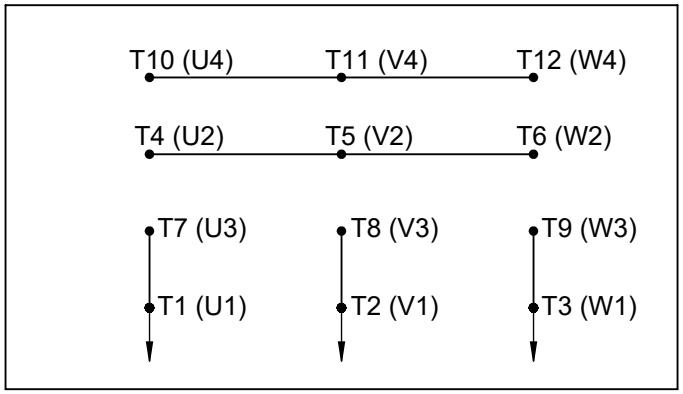


DELTA RUN

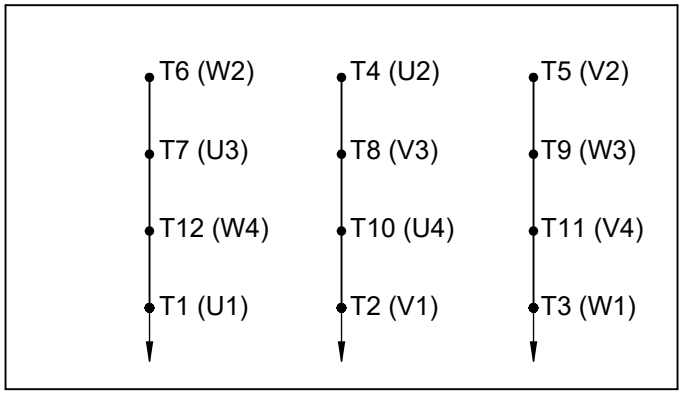


LOW VOLTAGE

WYE START



DELTA RUN



4/2 CKTY △

DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025

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

DRAWN BY	BLR
DATE	03-09-1998
APPROVED BY	GK
DATE	03-23-1998
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
12 LEAD - DUAL VOLT. - WYE START - DELTA RUN

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7358	1 OF 1

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Data Sheet

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

marathon® electric

213TTDW7053

Submittal

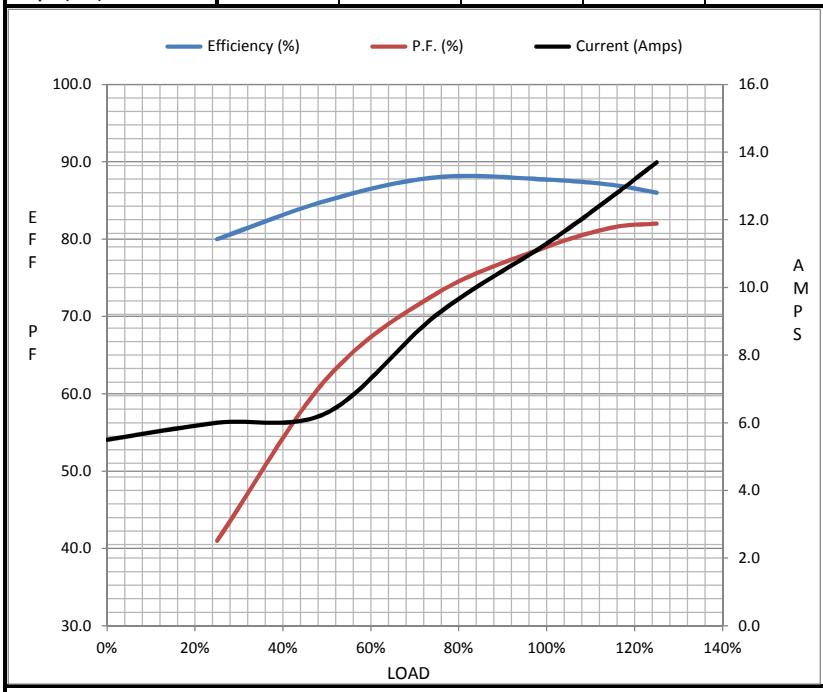
Data @ 415 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.5	6.0	6.3	9.2	11.3	12.7	13.7	80.0	
Torque (ft-lb)	0.00	6.6	13.5	20.0	27.0	31.1	34.0	61.0	
RPM	1500	1490	1475	1470	1460	1,455	1445	0	
Efficiency (%)		80.0	85.0	88.0	87.7	87.0	86.0		
P.F. (%)	9.3	41.0	62.0	73.0	79.0	81.5	82.0	51.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1250	1460	1500
Current (Amps)	80.0	72.0	48.0	11.3	5.5
Torque (ft-lb)	61.0	55.0	88.5	27.0	0.00



Information Block

HP	7.5
Sync. RPM	1500
Frame	213
Enclosure	DP
Construction	TDW
Voltage	200-208/380-400 V
Frequency	50 Hz
Design	A
LR Code letter	J
Service Factor	1.15
Temp Rise @ FL	32 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.65 Lb-Ft²
Ref Wdg	K2134219 NONE
Sound Pressure @ 1M	63 dBA
VFD Rating	NONE
Outline Dwg	A-SS86500-1115
Conn. Diag	A-EE7358

Additional Specifications:

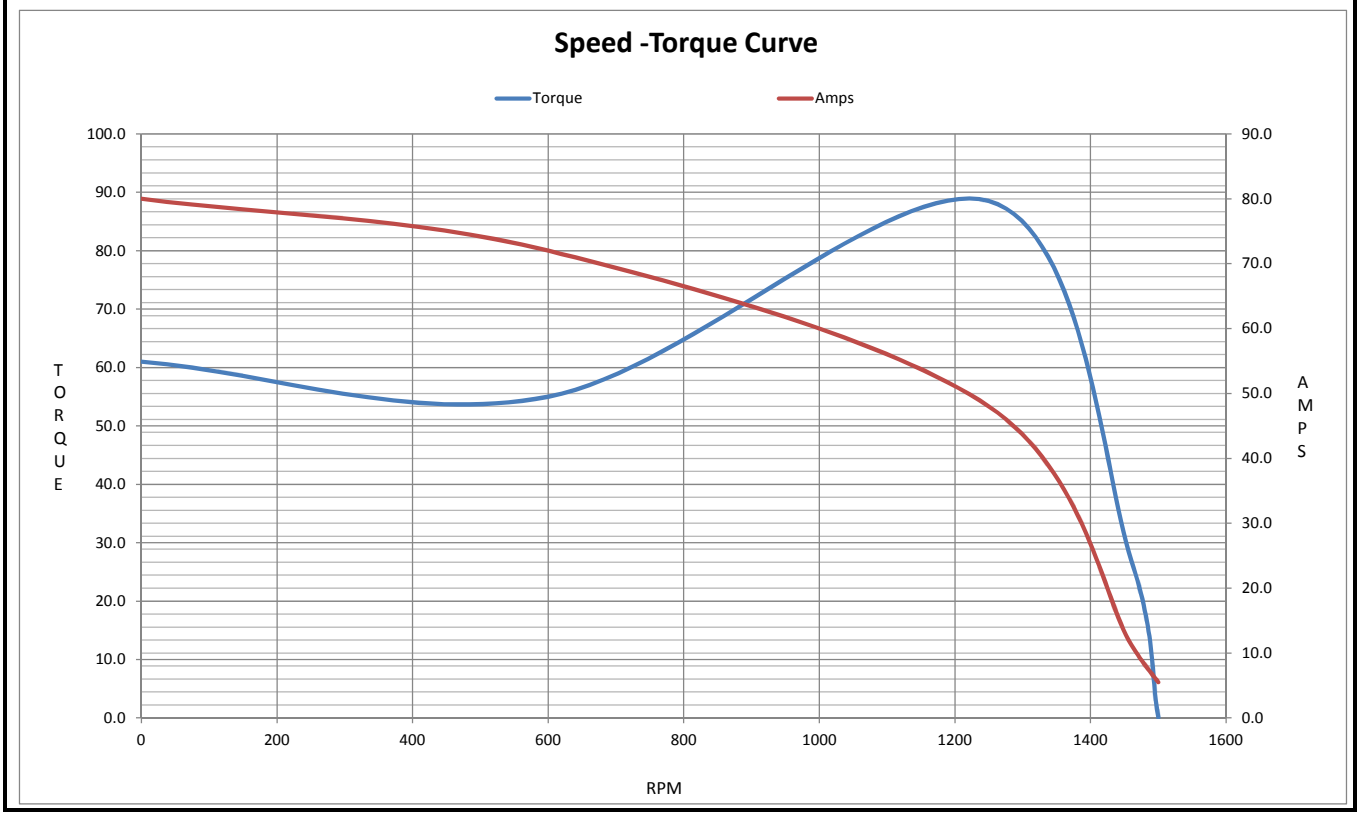
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.9030	0.7220	2.1670	3.1480	55.7280

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	213TTDW7053 BB	**WINDING#:**	K2134219 NONE 2
CONN. DIAGRAM:	A-EE7358	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	A-SS86500-1115		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.6	1500	1460	213T	DP	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	50	190-200-208/380-400-415	23.2-23-22.6/11.6-11.5-11.3	PWS(LV ONLY) & YDRUN	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 87.7	3/4 LOAD EFF: 88	1/2 LOAD EFF: 85	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 79	3/4 LOAD PF: 73	1/2 LOAD PF: 62	85.5	SQ CAGE IND RUN	11.4 / 5.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
27 LB-FT	166 / 83	61 LB-FT 226	88.5 LB-FT 328	32

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
63 dBA	73 dBA	0.65 LB-FT^2	60 LB-FT^2	15 SEC.	2	100 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6307	BALL 6206	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

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
- FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/22/2017 05:02:07 AM
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