marathon®

General Purpose Motors

Model No: 286TSTFCD6001
Catalog No: GT1030A

General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286TS Frame, TEFC

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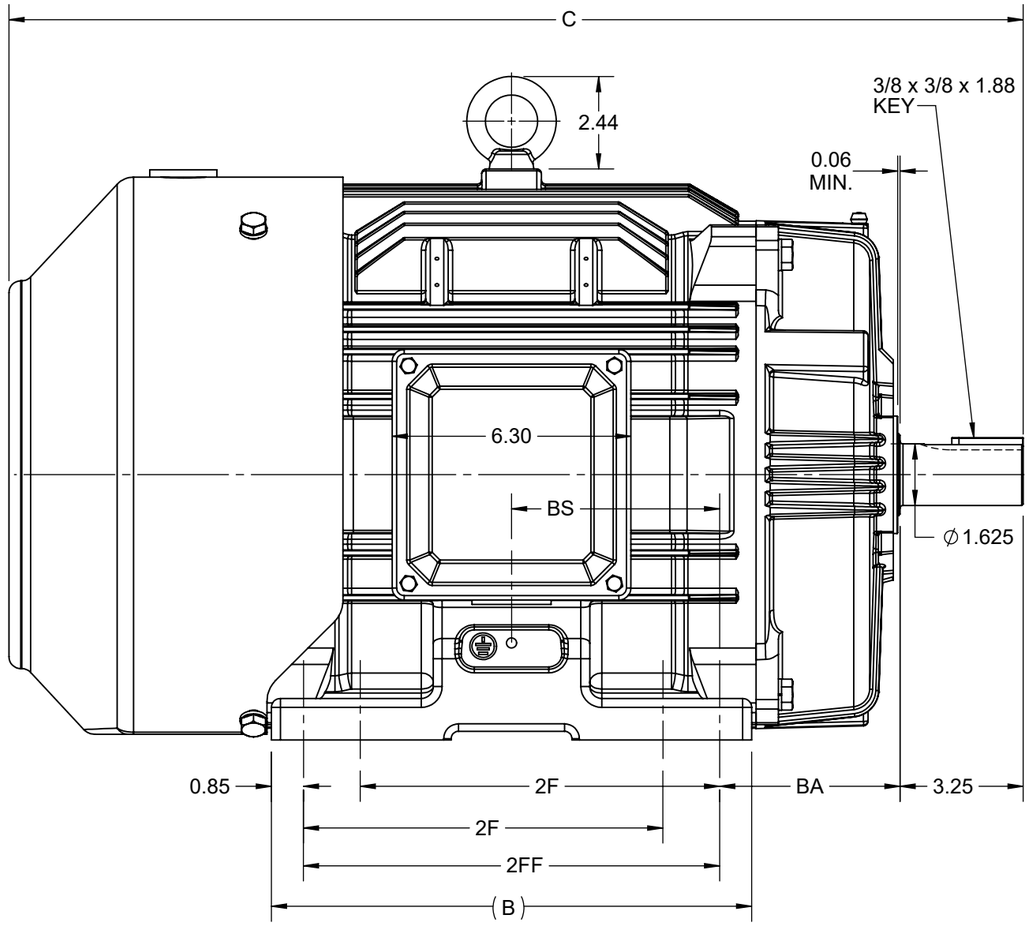
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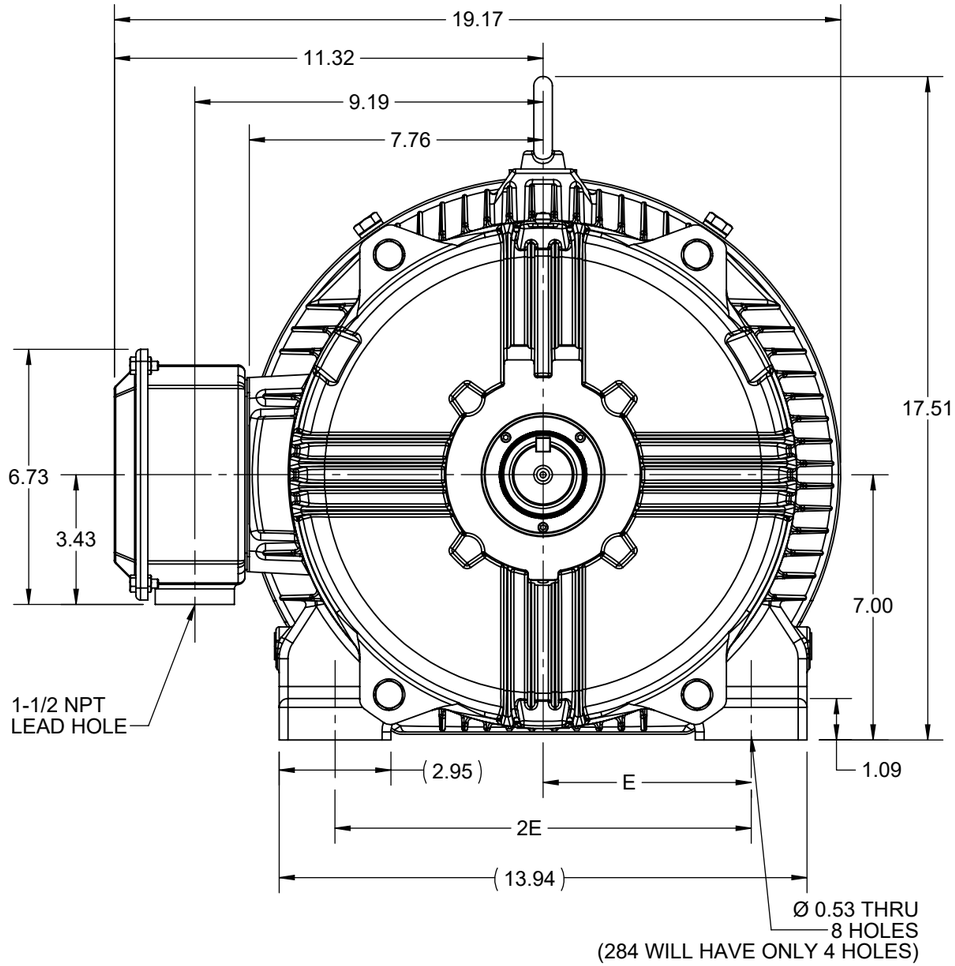
Product Information Packet: Model No: 286TSTFCD6001, Catalog No: GT1030A General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286TS Frame, TEFC

Nameplate Specifications			
Phase	**3**	Output HP	**30 & 25 Hp**
Output KW	**22.4 & 18.7 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3550 & 2950 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**286TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 & 91.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**71/35.5 & 72/36 A**
Power Factor	**86.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6211**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		
Technical Specifications			
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.338 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Overall Length	**26.77 in**
Shaft Diameter	**1 5/8 in**	Shaft Extension	**3.25 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**
Drawings			
Connection Drawing	**EE7308AA**	Outline Drawing	**SS620698-200**

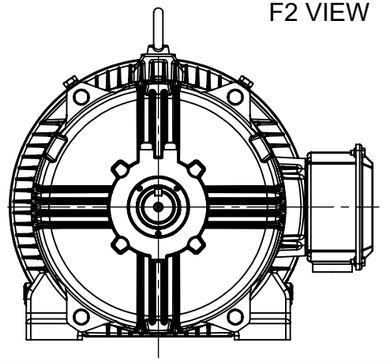
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DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	10.83	25.28	5.50	11.00	---	9.50	4.75	4.75	F1 OR F2	284T
200	12.68	26.78			9.50	11.00		5.50		284/286T





F2 VIEW

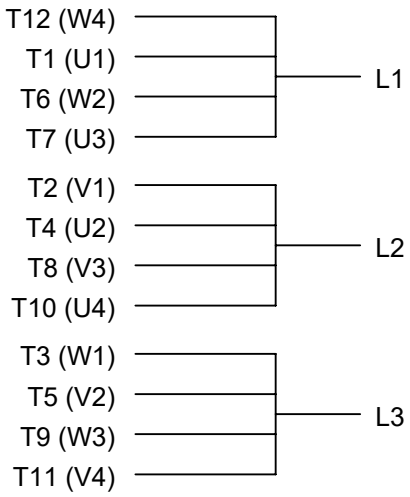


DRAWING REVISION: D	REVISION BY: SB	REV DATE/© DATE: 08/12/2025
REQUEST NUMBER: CR-0023556	APPROVED BY: SBD	DATE: 08/12/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

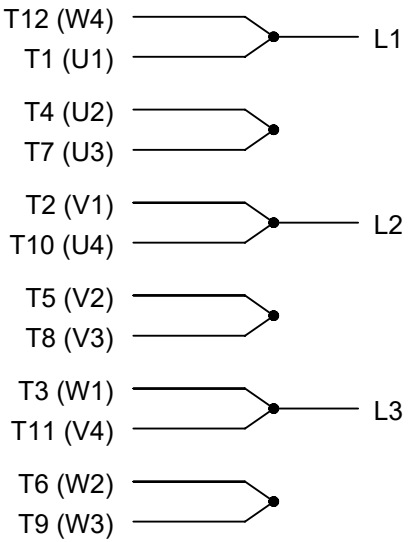
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PRIMARY DIMENSIONS ARE INCH
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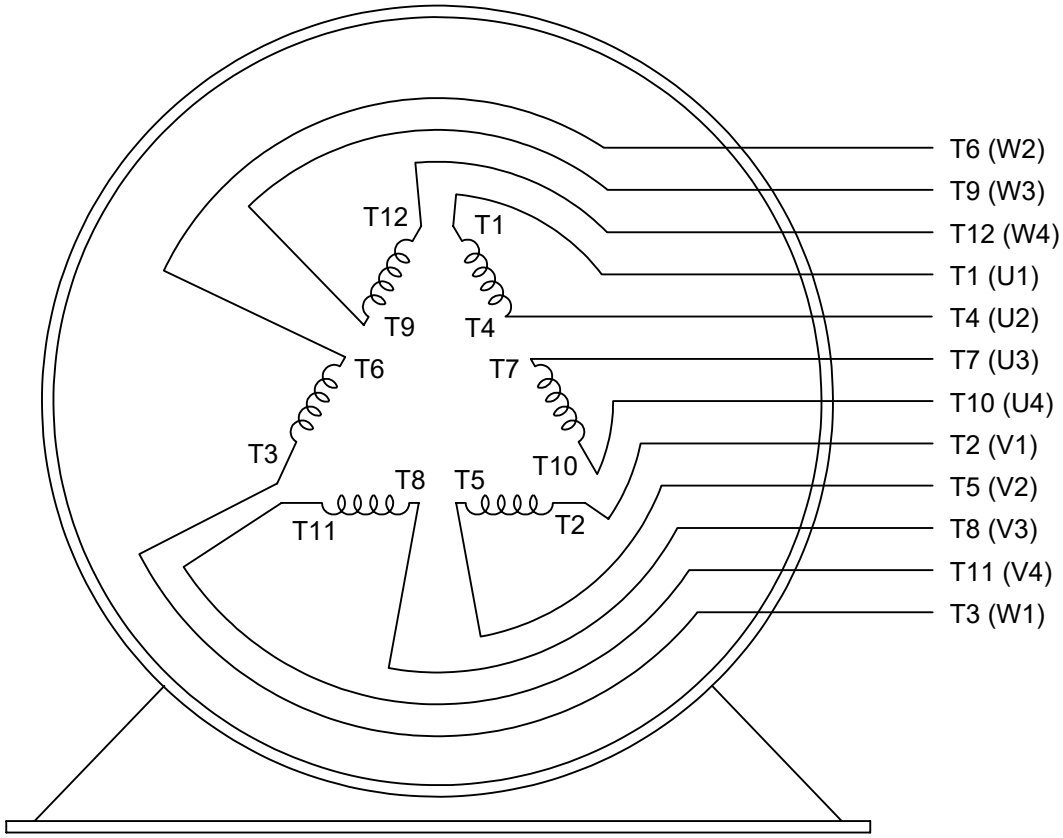
DRAWN BY: SMAR		marathon™
DATE: 07/07/2015		
APPROVED BY: SBD	DESCRIPTION: OUTLINE	
DATE: 07/07/2015	284/286TS FR-TEFC-CAST IRON	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS620698	SHEET: 1 OF 1



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: 12/14/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

286TSTFCD6001

Submittal

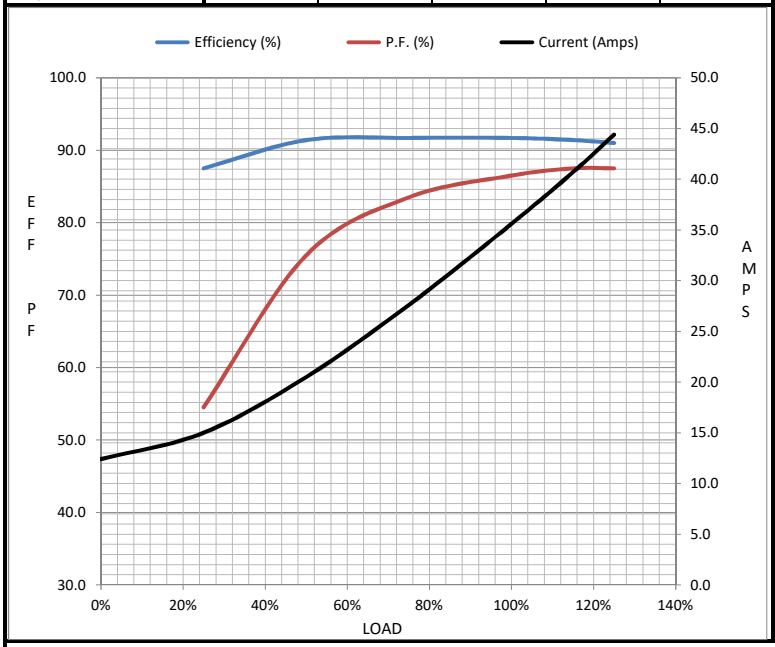
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.4	15.0	20.5	27.6	35.6	40.7	44.4	210	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.4	51.0	55.5	77.0	
RPM	3600	3588	3575	3565	3550	3,542	3536	0	
Efficiency (%)		87.5	91.4	91.7	91.7	91.4	91.0		
P.F. (%)	8.0	54.5	75.5	83.5	86.5	87.5	87.5	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3325	3550	3600
Current (Amps)	210	189	120	35.6	12.4
Torque (ft-lb)	77.0	65.0	107	44.4	0.00



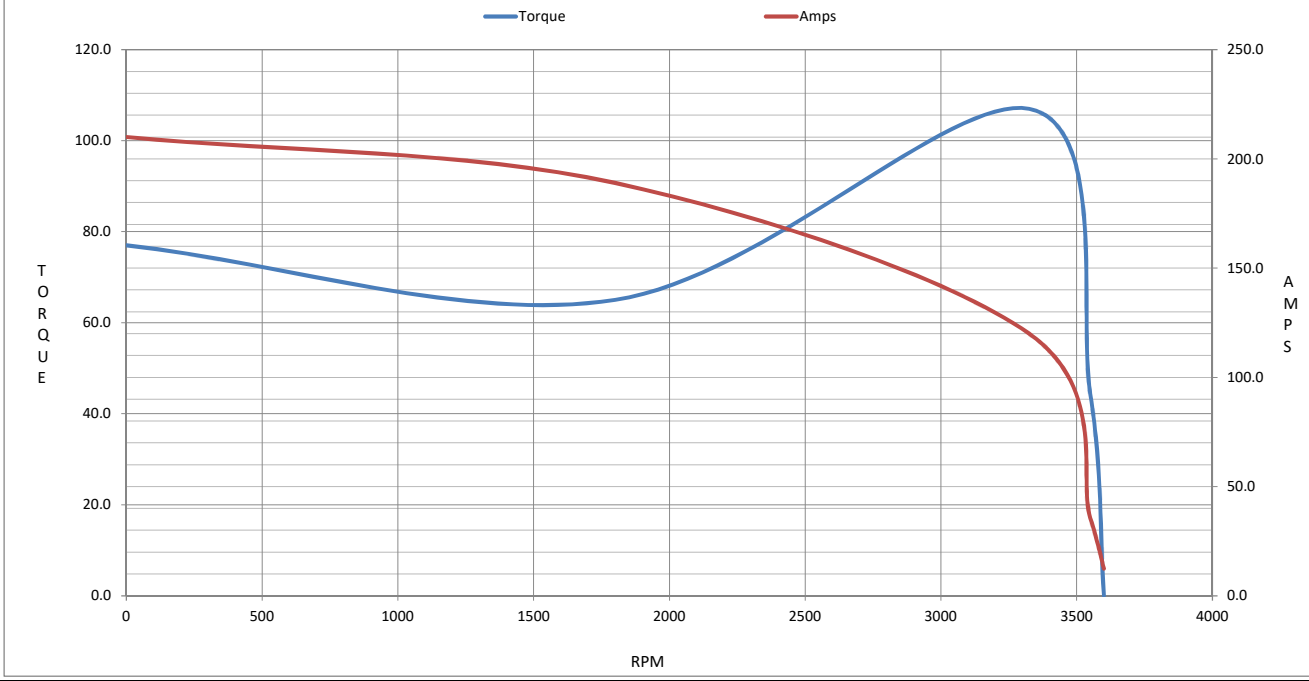
Information Block

HP	30.0	
Sync. RPM	3600	
Frame	286	
Enclosure	TEFC	
Construction	TFC	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	3.3	Lb-Ft²
Ref Wdg	HE31802003 NONE	
Sound Pressure @ 1M	72	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	SS620698	
Conn. Diag	A-EE7308AA	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.2290	0.1060	0.7060	0.7850	22.1360

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	286TSTFCD6001 AA	**WINDING#:**	HE31802003 NONE 2
CONN. DIAGRAM:	A-EE7308AA	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	SS620698		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	3600	3550&2950	286TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	71/35.5&72/36	Y START D RUN OR INV	CONTINUOUS	F7	1.15/1.0	40	3300

FULL LOAD EFF: 91.7&91.4	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.5&87	3/4 LOAD PF: 83.5	1/2 LOAD PF: 75.5	91	SQ CAGE INV RATED	24.8 / 12.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.4 LB-FT	420 / 210	77 LB-FT 173	107 LB-FT 241	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	3.3 LB-FT^2	35 LB-FT^2	20 SEC.	2	500 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	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6211	BALL 6211	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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: CONSTANT 10:1
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

*
NOTES
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