marathon®

General Purpose Motors

Model No: 215TBFW7027
Catalog No: I217

General Purpose Motor, 10 HP, 1 Ph, 60 Hz, 230 V, 1800 RPM, 215T Frame, TEFC

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Product Information Packet: Model No: 215TBFW7027, Catalog No: I217 General Purpose Motor, 10 HP, 1 Ph, 60 Hz, 230 V, 1800 RPM, 215T Frame, TEFC

Nameplate Specifications

Phase	**1**	Output HP	**10 Hp**
Output KW	**7.5 kW**	Voltage	**230 V**
Speed	**1759 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.00**	Frame	**215T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**85.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**41.5 A**
Power Factor	**90.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**L**
KVA Code	**H**	Drive End Bearing Size	**6307**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

Technical Specifications

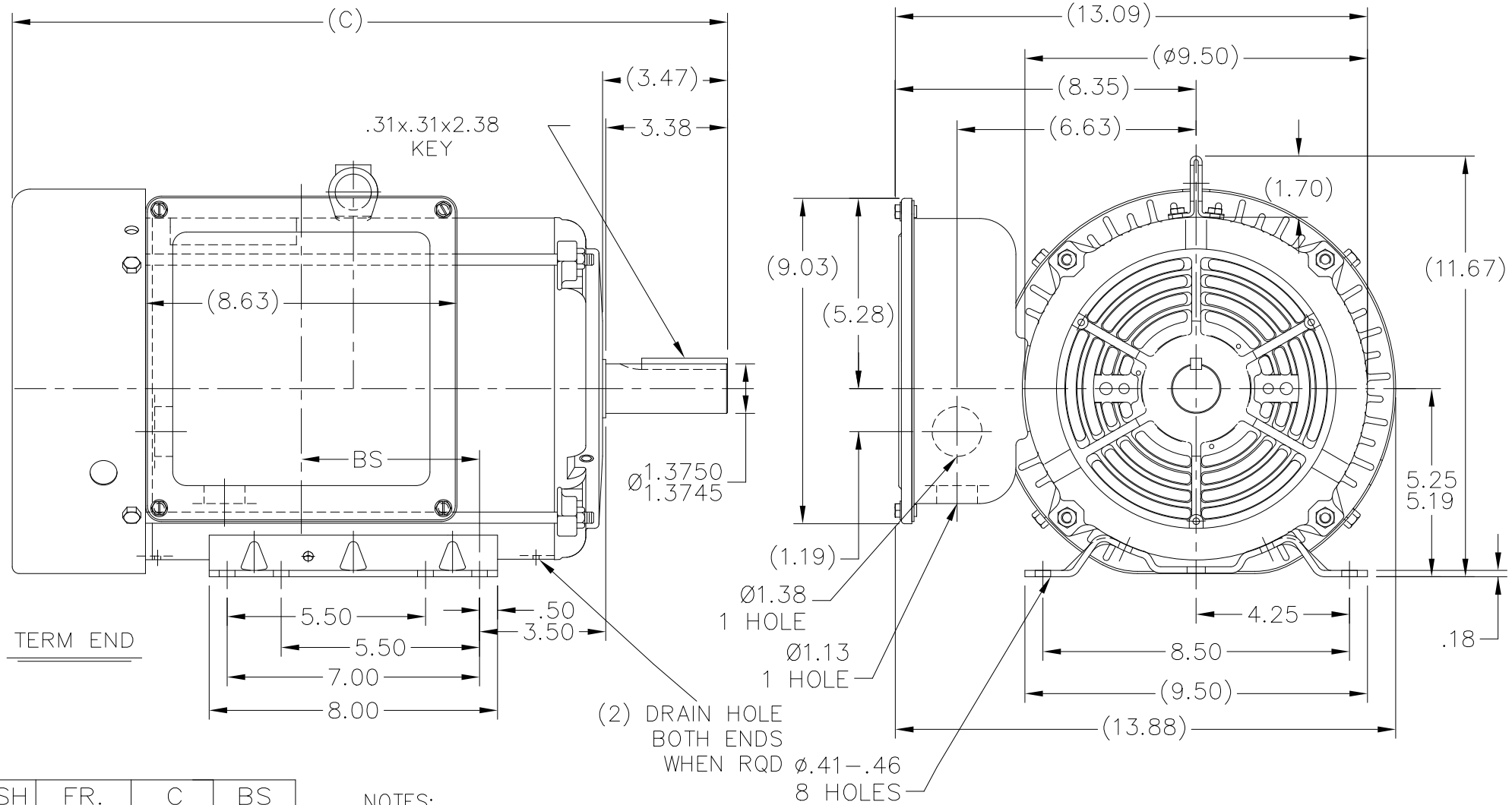
Electrical Type	**Capacitor Start Capacitor Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Selective Counterclockwise**
Resistance Main	**0 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**21.09 in**
Frame Length	**12.4 in**	Shaft Diameter	**1 3/8 in**
Shaft Extension	**3.47 in**	Assembly/Box Mounting	**F1 Only**

Drawings

Connection Drawing	**A-EE9048MF**	Outline Drawing	**A-SS88687-1240**

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DASH	FR.	C	BS
965	213T	18.34	3.44
1115	213/15T	19.84	4.94
1240	215T	21.09	6.19

NOTES:
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. DASH 965 TO BE READ FROM OPPOSITE SHAFT END

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
F	SB	05/28/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026424	RMS	05/28/2026

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	
MJK	
DATE	
07/25/2007	
APPROVED BY	
EH	
DATE	
01/24/2008	
REFERENCE	
THIRD ANGLE PROJECTION	

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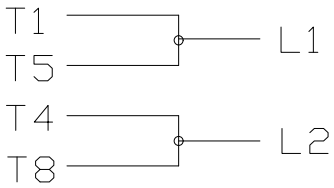
DESCRIPTION
OUTLINE
210 FR. - TEFC - 1 PHASE

MATERIAL	PROCESS/FINISH

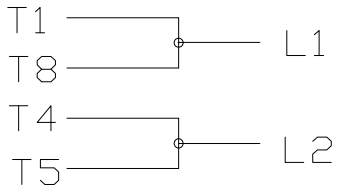
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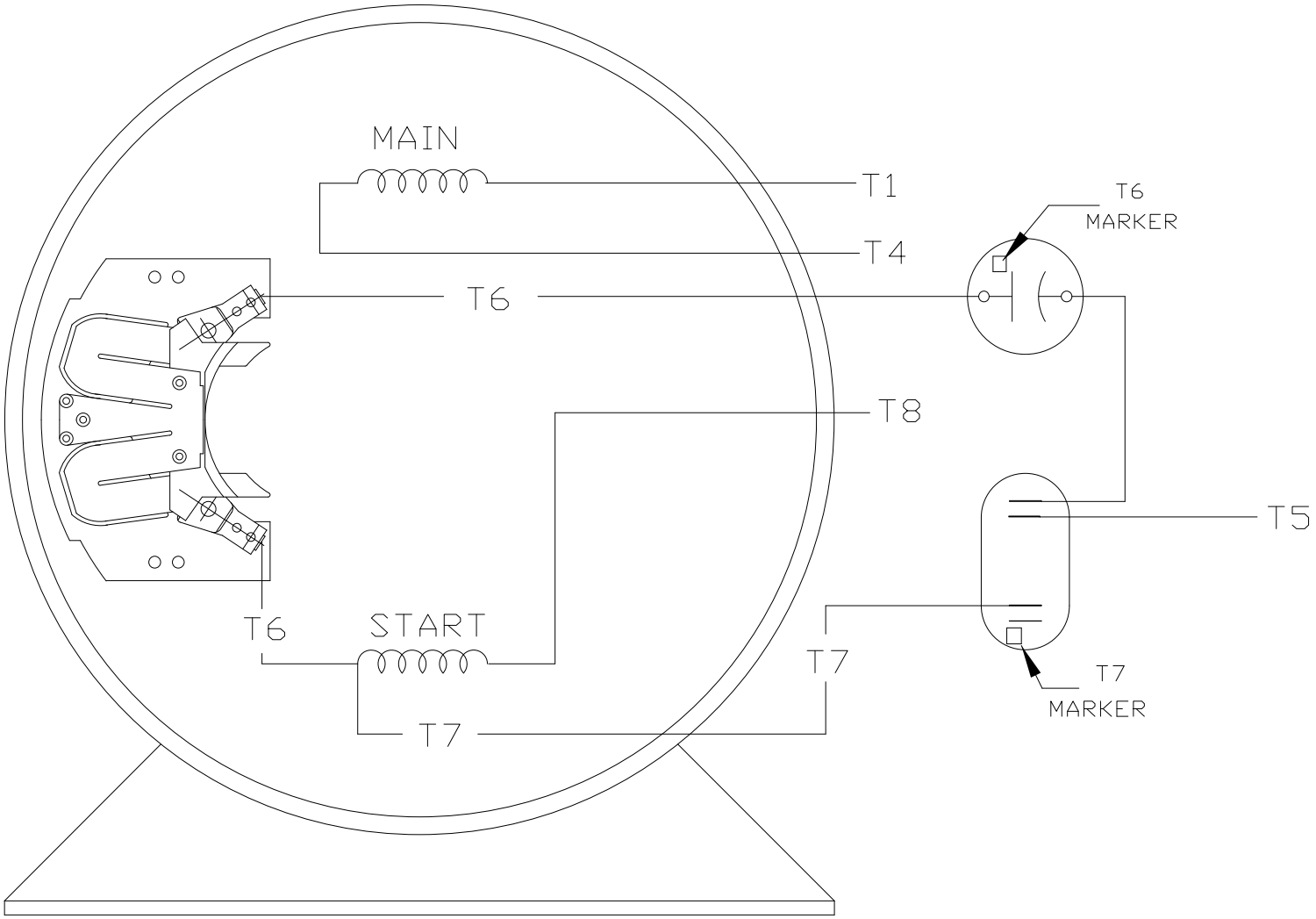
C.W. ROTATION



C.C.W. ROTATION



SINGLE VOLTAGE
CAPACITOR START
CAPACITOR RUN
REVERSIBLE



VIEW OF TERMINAL END

DRAWING REVISION C	REVISION BY SB	REV DATE/ © DATE 08/20/2025
REQUEST NUMBER CR-0023600	APPROVED BY SBD	DATE 08/20/2025

REQUEST NUMBER DESCRIPTION
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DRAWN BY GK	
DATE 11/01/1986	
APPROVED BY FG	DESCRIPTION CONN DIAGRAM-EXTERNAL
DATE 11/04/1986	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE A / DRAWING NUMBER 4 of 6 EE9048MF / SHEET 1 OF 1

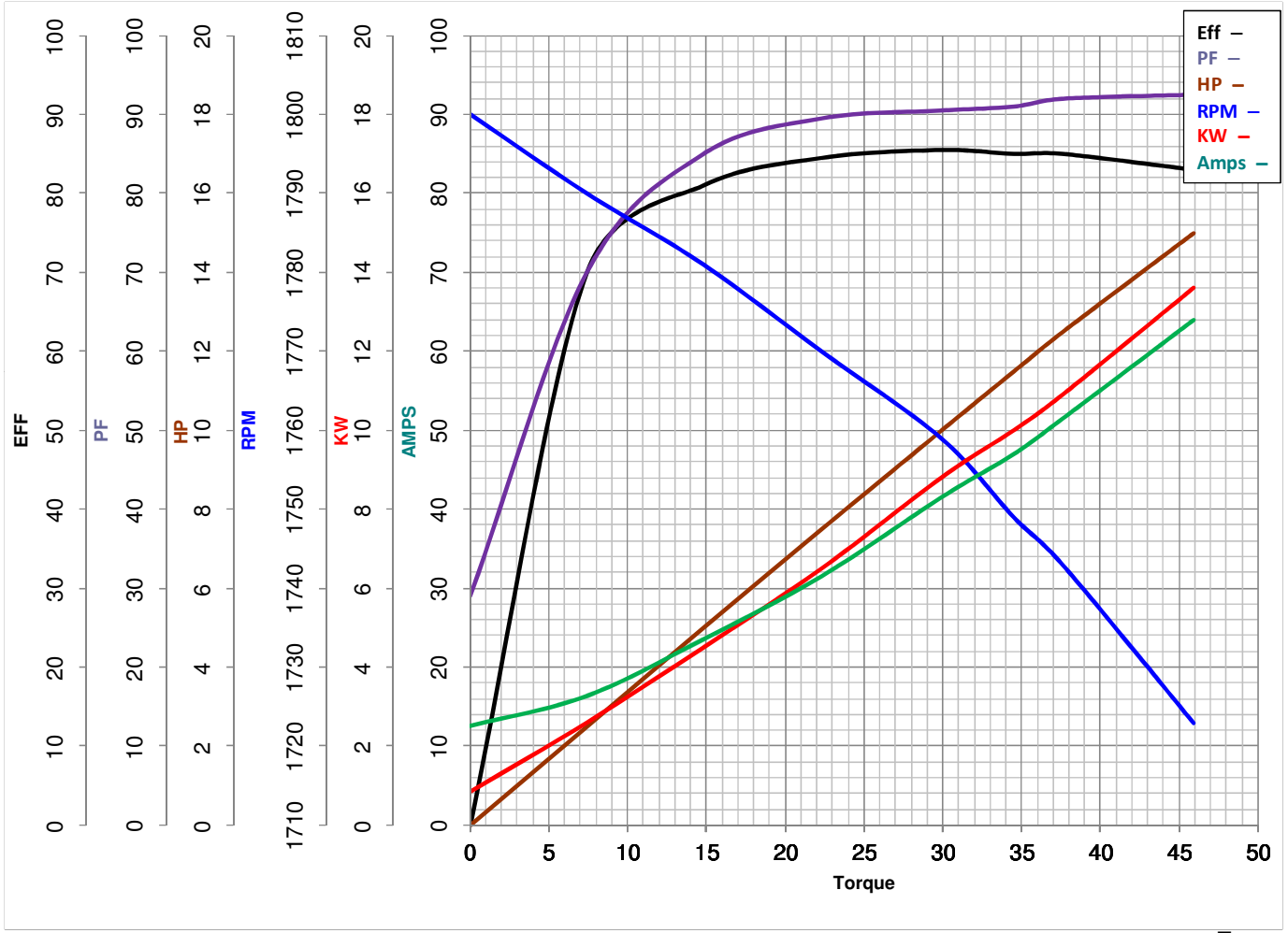
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MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer	CATALOG	**Curve at**	230	**Volts**	**HP** 10.00	**PHASE**	1
			60	**HZ**			
Model No	215TBFW7027		10	**HP**	**VOLTS** 230		
Catalog No	I217				**HZ** 60	**RPM**	1759



Torque in Lb.Ft

FL TORQUE	29.9 **Lb.Ft**		**FL AMPS**	41.5	
BD TORQUE	79.7 **Lb.Ft**		**PU TORQUE**	53.0	**Lb.Ft**
LR TORQUE	55.2 **Lb.Ft**		**LR AMPS**	260	
WINDING	BK104125-2	**Prepared By** SRIKANTH		**Date**	**6/20/2017**

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CERTIFICATION DATA SHEET

Model#:	215TBFW7027 DD	**WINDING#:**	BK104125 NONE 2
CONN. DIAGRAM:	A-EE9048MF	**ASSEMBLY:**	F1 ONLY
OUTLINE:	A-SS88687-1240		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.5	1800	1759	215T	TEFC	H	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	230	41.5	ACROSS THE LINE	CONTINUOUS	F4	1.0	40	3300

FULL LOAD EFF: 85.5	3/4 LOAD EFF: 84.5	1/2 LOAD EFF: 81	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90.5	3/4 LOAD PF: 89.5	1/2 LOAD PF: 85	0	CAP START CAP RUN	12.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.9 LB-FT	260	55.2 LB-FT 185	79.7 LB-FT 267	95

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0 LB-FT^2	- LB-FT^2	10 SEC.	-	0 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 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
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