

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTFWD16059

Catalog No: U2115A

General Purpose Pump Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,
1800 & 1500 RPM, 215TZ Frame, TEFC



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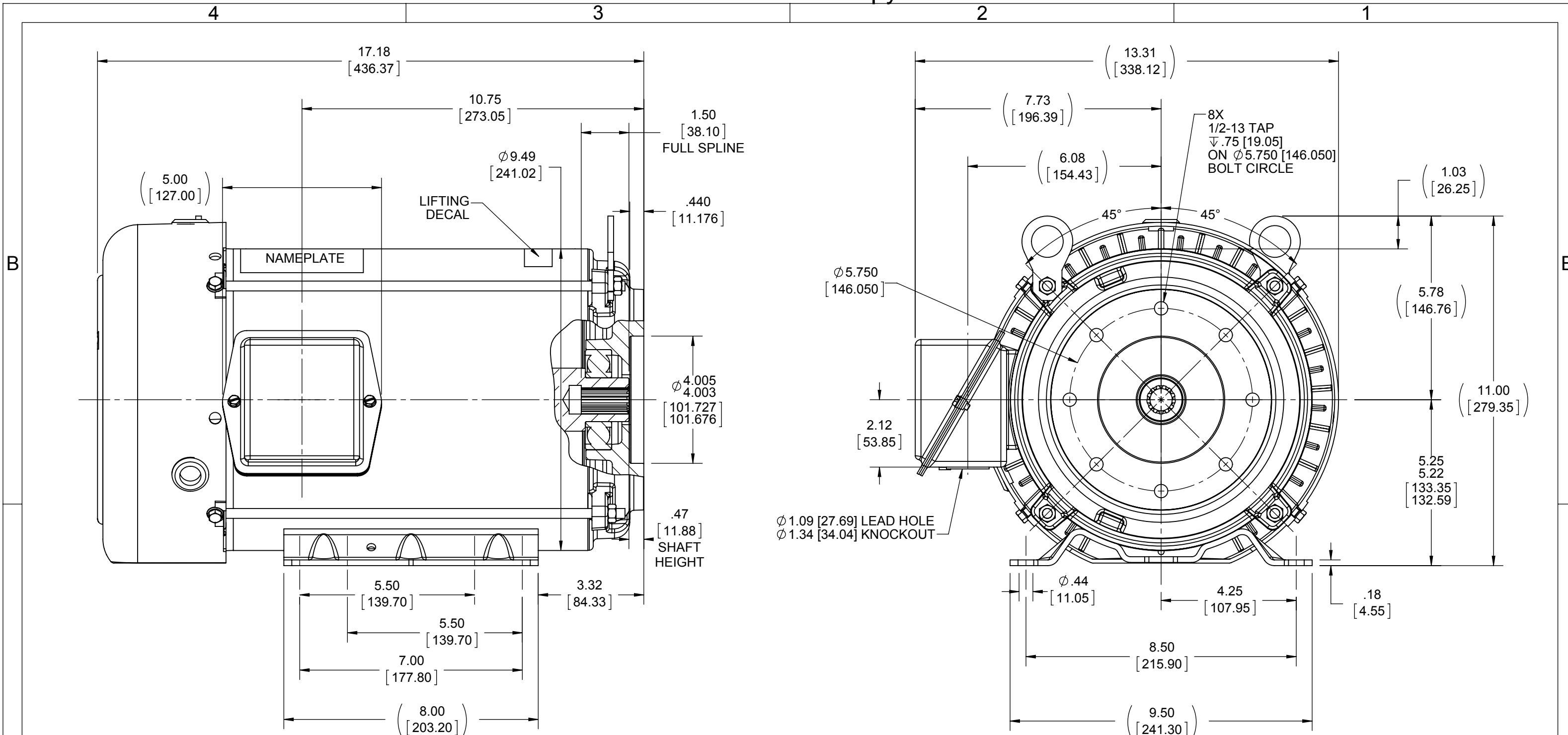


Nameplate Specifications

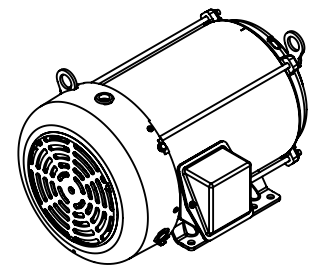
Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.6 kW	Voltage	208-230/460 & 190/380 V
Speed	1760 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	215TZ	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	14-26.4/13.2 & 27.4/13.7 A	Power Factor	77.5
Duty	Continuous	Insulation Class	F
Design Code	B	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	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.9 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	24.47 in
Frame Length	11.15 in	Shaft Diameter	1.375 in
Shaft Extension	6.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005010.01	Outline Drawing	609-0008-001



INTERNAL INVOLUTE SPLINE FLAT ROOT SIDE FIT - CLASS 5 FIT	
NO. OF TEETH	13
SPLINE PITCH	16/32
PRESSURE ANGLE	30°
BASE DIAMETER	.7036 [17.8714] REF.
PITCH DIAMETER	.8125 [20.6375]
MAJOR DIAMETER	.897 [22.784] MAX
FORM DIAMETER	.879 [22.327]
MINOR DIAMETER	.755/.750 [19.177/19.050]
CIRCULAR SPACE WIDTH	
MAXIMUM ACTUAL	.1008 [2.5603]
MINIMUM EFFECTIVE	.0982 [2.4943]
SIZE BETWEEN	BHT .654/.656 [16.612/16.662]
Ø .108[2.743] PINS	AHT .652/.654 [16.561/16.612]
ANSI B92.1-1996 PROVISIONS APPLY	

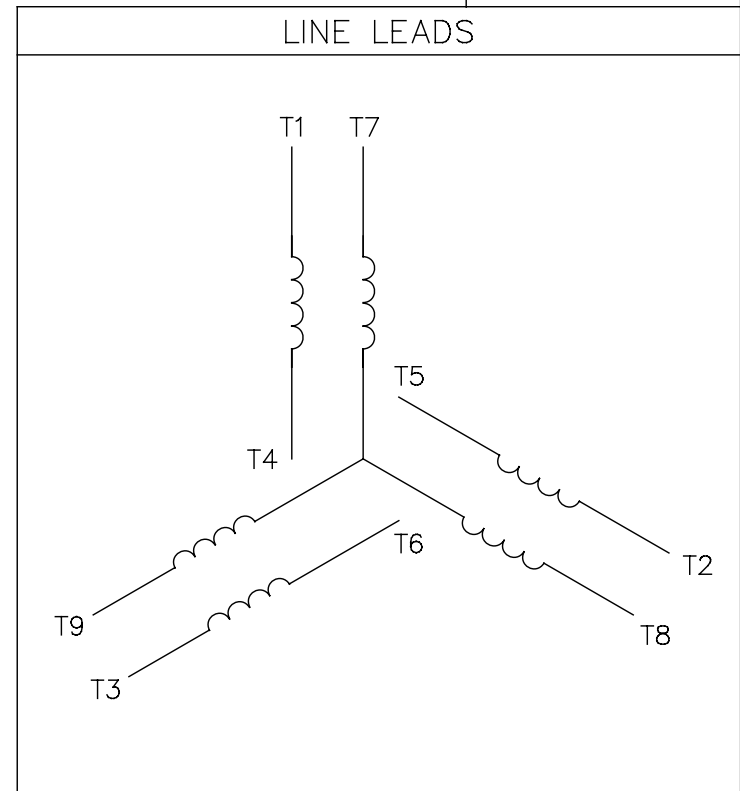


- NOTES:
 1) NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR
 2) BOX CAN BE MOUNTED IN 90° STEPS
 3) BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180° (EXCEPT AS NOTED)

DRAWING REVISION C	REVISION BY MITCH VERBICK	DATE 10/7/2014	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE ±0.5° .X ±0.1 [±2.5] .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DRAWN BY MITCH VERBICK	REGAL ™ Regal Beloit America, Inc.
ECO ECO-0062088	APPROVED BY	DATE	REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [51] MACHINED SURFACES: 125 INCH 3.2 mm SHOWN IN [BRACKETS]	DATE 2/18/2014	
ECO DESCRIPTION ADDED SPLINE DEPTH				APPROVED BY	DESCRIPTION OUTLINE 210 FRAME SAE B SPLINE
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				PROCESS/FINISH	SIZE B
				THIRD ANGLE PROJECTION	DRAWING NUMBER 609-0008
					SHEET 1 OF 1

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		Regal Beloit America, Inc.		DRAWN RDW 04/12/02			
				DEC.	INCHES			CHK			
				.X	±.1			APPD			
				.XX	±.01			SCALE 1=1			
				.XXX	±.005	TITLE		REF FIG.2-51			
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005	MAT'L		FMF			
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH		PREV			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	04/12/02	CAD FILE		00501001	SIZE	DRAWING NO.	REV.
				DIST		BRF-NLV		A	005010-01	A	

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01

MODEL #: 215TTFWD16059 AA

OUTLINE: 608-0008-1115

MOUNTING: F1 ONLY

WINDING #: K2154513 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	1800	1760&1475	215TZ	TEFC	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	208-230/460&190/380	14-26.4/13.2&27.4/13.7	LINE OR INVERTER	CONTINUOUS	F3	1.15/1.15	40

FULL LOAD EFF:	91.7&89.5	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	91	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	77.5&57.2	3/4 LOAD PF:	69.6	1/2 LOAD PF:	57.2	90.2		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.9 LB-FT	162 / 81	76 LB-FT 255 %	90 LB-FT 302 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.1 LB-FT^2	50 LB-FT^2	20 SEC.	2	150 LBS.

***** SUPPLEMENTAL INFORMATION *****

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	SGL SPL EXT	SPECIAL	NONE	4140 STRESSPROOF (C-214)	ROLLED STEEL
6307	6206						

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

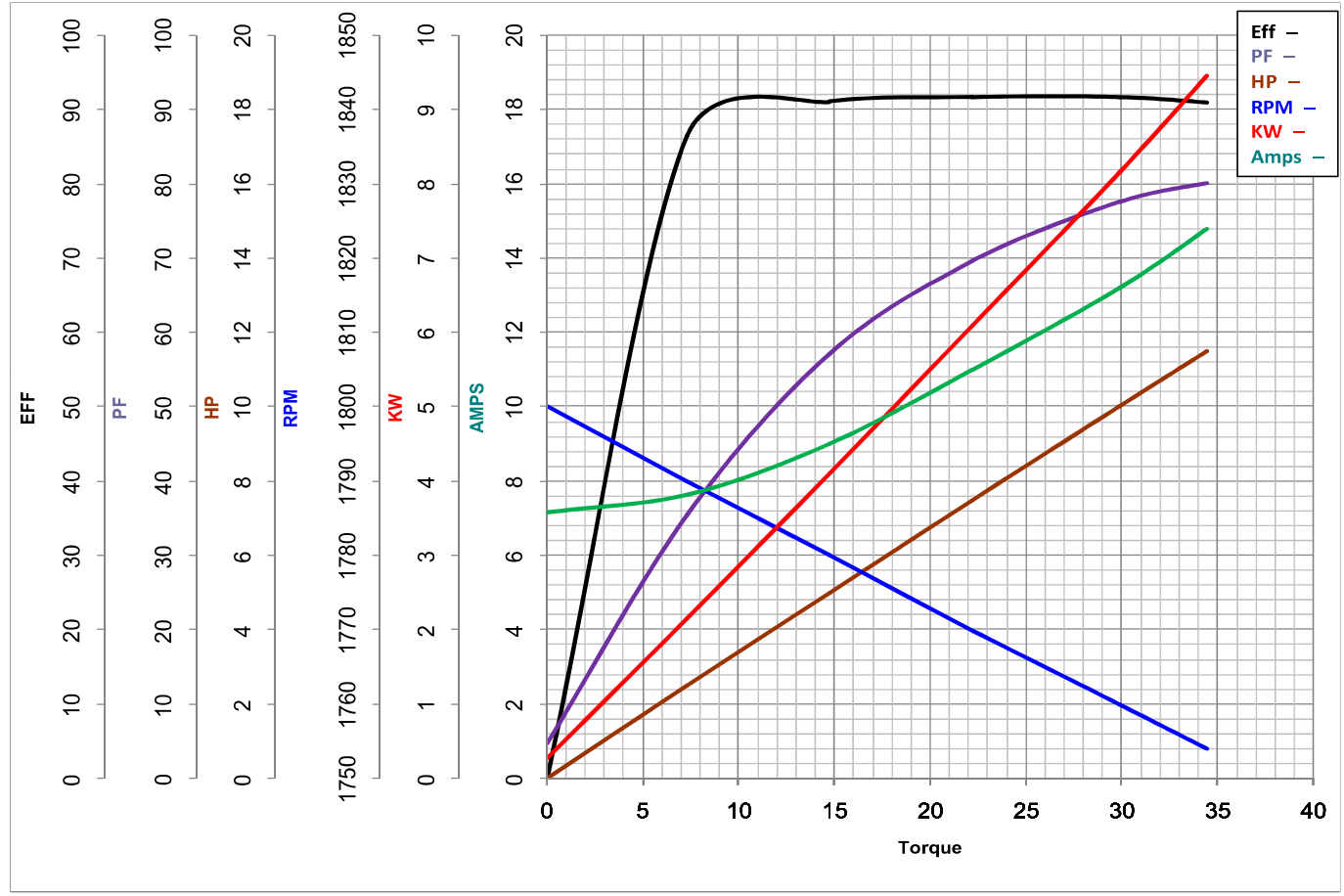
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E
S

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: 1.25 X BASE SPEED
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer _____ Curve at 460 Volts HP 10&7.5 PHASE 3
 Model No 215TTTFWD16059 60 HZ
10 HP VOLTS 208-230/460&190/380
 Catalog No U2115A HZ 60&50 RPM 1760&1475



Torque in Lb.Ft

FL TORQUE	<u>29.9</u>	Lb.Ft	FL AMPS	<u>14-26.4/13.2</u>
BD TORQUE	<u>90.0</u>	Lb.Ft	PU TORQUE	<u>70.0</u> Lb.Ft
LR TORQUE	<u>76</u>	Lb.Ft	LR AMPS	<u>81</u>
WINDING	K2154513-3	Prepared By	ANUSHA.M	Date
				11/5/2018