

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFWD16014

Catalog No: U327A

7.50 HP Close-Coupled Pump Motor, 3 phase, 3600 RPM, 200 V, 213JM Frame, TEFC
Close-Coupled Pump Motors



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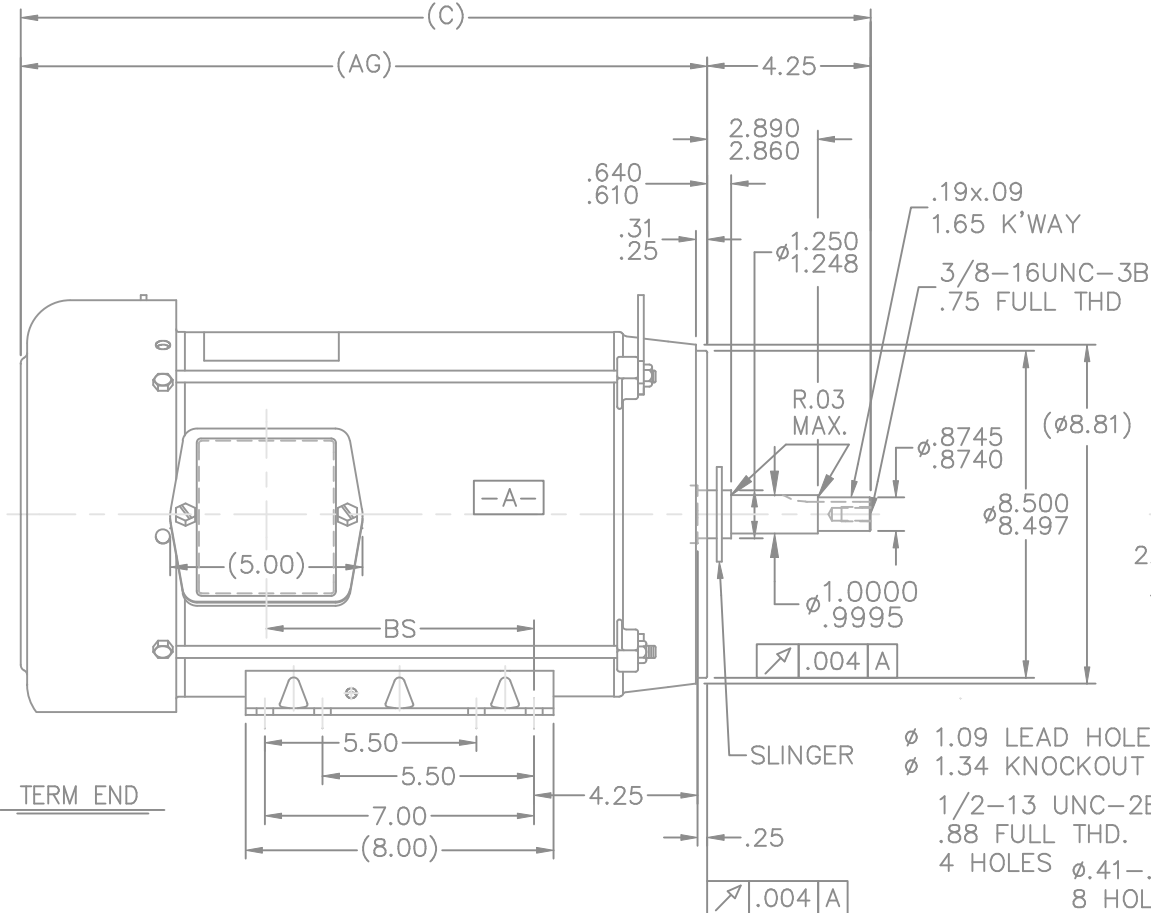
RegalRexnord

Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	200 V
Current	21.4 A	Speed	3525 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Power Factor	84.6
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	213JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	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 Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	.1725 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	20.59 in
Frame Length	9.65 in	Shaft Diameter	0.875 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	005102.01	Outline Drawing	A-SS86629-965



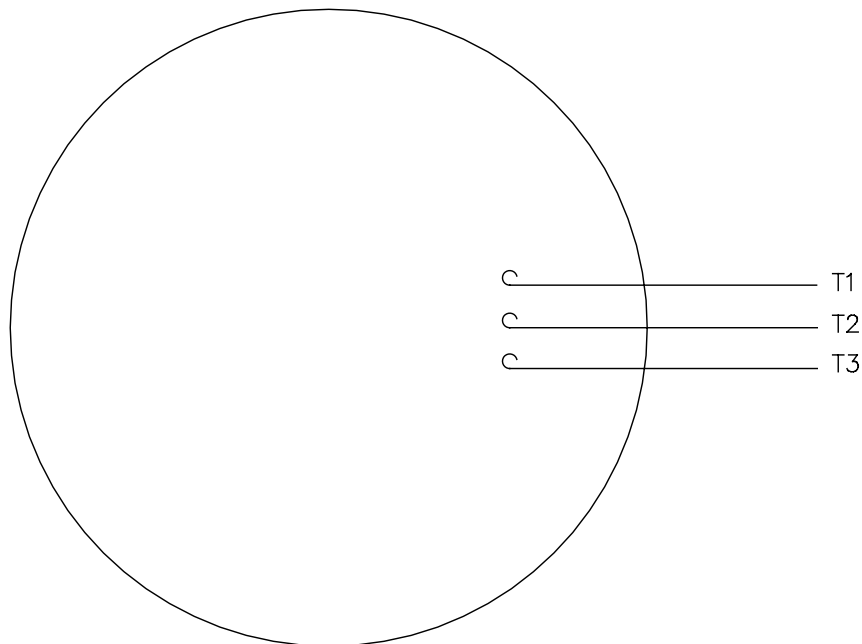
DASH	FR.	C	AG	BS	MOUNTING
965	213T	20.59	16.34	5.43	
1115	213/15T	22.09	17.84	6.93	
1240	213/15T	23.34	19.09	8.18	F1 ONLY

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.)

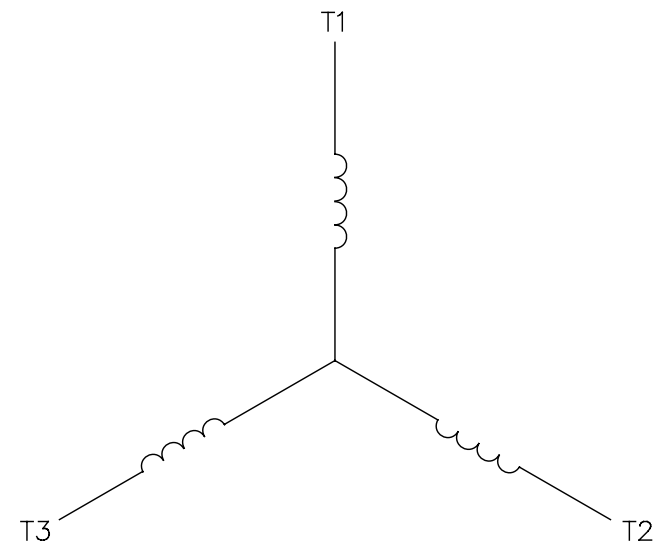
6	UPDATED DRAWING	TJW 04/30/2007	ML	TOLERANCES UNLESS SPECIFIED			DRAWN DRS 09-06-1996				
5	REDRAWN IN AUTOCAD	TAT 07-06-2004	ML	DEC.	INCHES		CHK ML 09-20-1996				
4	UPDATED C' BOX GEOMETRY CN 28425	DRS 01-14-2000		.X	±.1		APPD DN 09-20-1996				
3	REVISED MOUNTING HOLES ON C' FACE WAS .75	MJD 06-18-1998		.XX	±.03	TITLE OUTLINE 210T JM-BB-TS-TEFC-R/S-C' FACE	SCALE 1=5				
	FULL THREAD CN 25600-210			.XXX	±.005		REF				
2	REMOVED GRD. SCREW FROM FRAME CN 24453	MJD 10-01-1997		.XXXX	±.0005	MAT'L.	FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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		CAD FILE ss86629		SIZE	DRAWING NO.	PAGE	OF	REV.
			DIST LB				A	SS86629			

005102-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS

CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ()

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.		DRAWN	JRW 9/11/75
				DEC.	INCHES			CHK	
				.X	±.1			APPD	JCW 9/11/75
08	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR		SCALE	1=1
07	UPDATED TO CURRENT STANDARDS	DBT 5/30/97		.XXX	±.005			REF	W-T6343-6
06	REDRAWN ON CAD; ADDED DECAL NUMBER	SAW 1/24/95		.XXXX	±.0005			FMF	6T17FB7
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	5/1/02	CAD FILE	00510201	SIZE	DRAWING NO.	REV.
			DIST	BRF-NLV			A	005102-01	08



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:

ORDER #:

CONN. DIAGRAM: 005102.01

OUTLINE: A-SS86629-965

WINDING: K2132124 NONE 4

SPEED:

CUSTOMER P.O. #:

REFERENCE MODEL #: 213TTFWD16014

CAT #: #VALUE!

CUSTOMER PART #:

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	3600	3525	213JM	TEFC	TFW	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	200	21.4	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	88.9	1/2 LD EFF	88.1	GTD EFF		ELECT. TYPE	
F.L. PF	84.6	3/4 LD PF	79.7	1/2 LD PF	68.4	89.5		SO CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
11.2 LB-FT	145	19.3 LB-FT 172%	33.0 LB-FT 295%	55	

@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	0.55 LB-FT ²	12 LB-FT ²	20 SEC.	2	165 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE							
BALL BALL	POLYREX EM	JM	NONE	NONE	AISI 1045 (C-240)		ROLLED STEEL
6309 6206							

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)	FLOAT
0.199	0.109	0.481	0.267	10.718	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

PREPARED BY: EARL BABBITTS	BRAKE: NONE
DATE: 13-07-17	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC

Data Sheet

Date: 1/7/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



213TTFWD16014

Submittal

Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.4	10.4	13.3	17.0	21.4	23.5	26.2	145	
Torque (ft-lb)	0.00	2.70	5.5	8.3	11.2	12.5	14.0	19.3	
RPM	3600	3585	3565	3545	3525	3520	3505	0	
Efficiency (%)		81.8	88.1	88.9	89.5	89.9	88.1		
P.F. (%)	8.0	46.9	68.4	79.7	84.6	85.5	87.1	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	552	3130	3525	3600	HP	7.5			
Current (Amps)	145	138	87.4	21.4	9.4	Sync. RPM	3600			
Torque (ft-lb)	19.3	19.0	33.0	11.2	0.00	Frame	213			
						Enclosure	TEFC			
						Construction	TFR			
						Voltage	200	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 wk ²	0.55	Lb-Ft ²		
						Ref Wdg	K2132124	NONE		
						Sound Pressure @ 1M	72	dBA		
						VFD Rating	NONE			
						Outline Dwg	A-SS86629-965			
						Conn. Diag	005102.01			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
	R1	R2	X1	X2	Xm					
	0.1990	0.1090	0.4810	0.2670	10.7180					

Speed -Torque Curve

