

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTDWD16307

Catalog No: E173A

Close-Coupled Pump Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
213JMV Frame, DP



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RegalRexnord

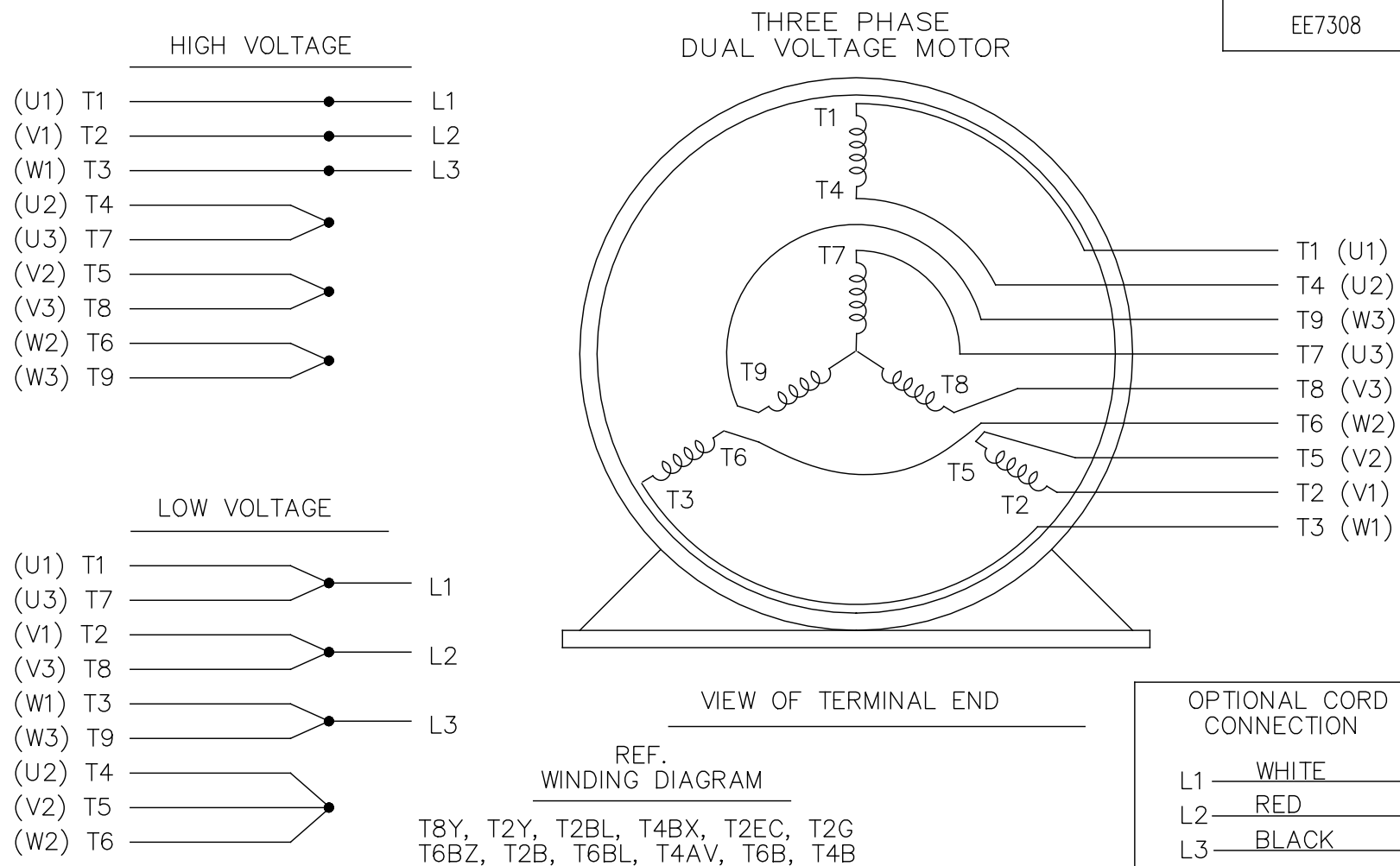
Nameplate Specifications

Phase	3	Output HP	10 & 7.5 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	3530 & 2930 rpm	Service Factor	1.15 & 1.15
Frame	213JMV	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	90.2 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	24.2/12.1 & 22.6/11.3 A	Power Factor	85.4
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	1.4632 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	18.94 in
Frame Length	9.65 in	Shaft Diameter	0.875 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7308	Outline Drawing	SS86596-965

6	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06/09/2015		TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.				DRAWN DA 03 26 1996		
5	UPDATED DRAWING	TJW 04/30/2007		DEC.	INCHES					CHK ML 04-01-1996		
4	REDRAWN IN AUTOCAD	TAT 07-06-2004	ML	.X	±.1					APPD DN 04-01-1996		
3	UPDATED DRIP COVER GEOMETRY CN 29200-433	DRS 01-25-2002		.XX	±.03	TITLE OUTLINE - C' FACE 210JM FR. - DR. PR.				SCALE 1=5		
2	UPDATED C' BOX GEOMETRY CN 28425	DRS 01-31-2001		.XXX	±.005					REF		
1	NEW DRAWING - DES/DEV	DA 04-02-1996		.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 ss86596				SIZE A	DRAWING NO. PAGE OF		REV. 6
			DIST LB							SS86596		



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM 11/20/1990				
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF				
1	REDRAWN	RM 11/20/1990		.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 ee7308		SIZE A	DRAWING NO. EE7308	PAGE OF	REV. 5
			DIST WP								



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
ORDER #: _____ REFERENCE MODEL #: 213TTDWD16307
CONN. DIAGRAM: EE7308 CAT #: E173A
OUTLINE: SS86596-965 CUSTOMER PART #: _____
WINDING: K2132123 NONE 3 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	3600	3530	213JMV	DP	TDW	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	24.2/12.1&22.6/11.3	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	91.0	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF	85.4	3/4 LD PF	80.3	1/2 LD PF	68.9	88.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
14.9 LB-FT	79.0	25.0 LB-FT 168%	43.2 LB-FT 290%	47

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA	0.45 LB-FT²	5 LB-FT²	15 SEC.	2	105 LB.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	JM	NONE	NONE	EN8D STEEL BAR (C-242)	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
0.891	0.425	2.184	1.259	48.32	0.150	ODE

* N O T E S *			INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE NONE PPR
PREPARED BY: FAREEDA DUDEKULA DATE: 9/17/2018		BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ:	

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

Data Sheet

Date: 12/10/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



213TTDWD16307

Submittal

Data @ 460 V

Motor Load Data

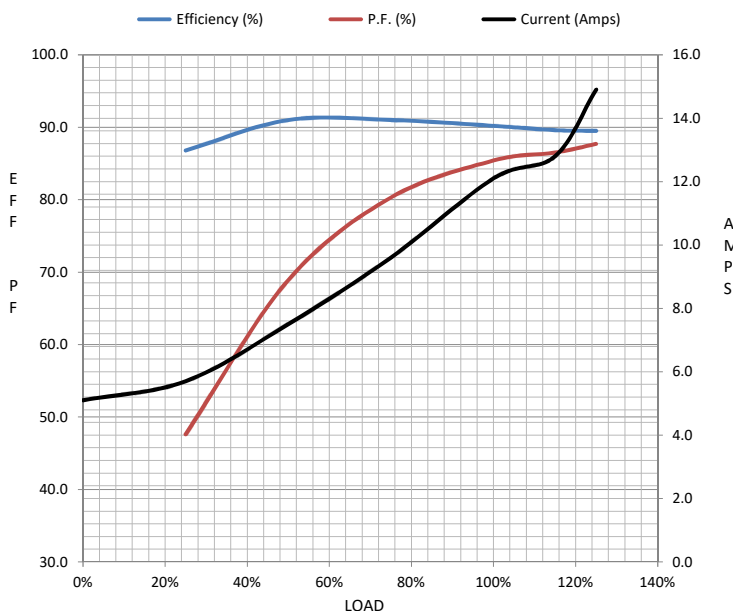
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.1	5.7	7.5	9.6	12.1	12.8	14.9	79.0	
Torque (ft-lb)	0.00	3.7	7.4	11.1	14.9	17.2	18.7	25.0	
RPM	3600	3568	3568	3552	3530	3,517	3511	0	
Efficiency (%)		86.8	91.0	91.0	90.2	89.6	89.5		
P.F. (%)	6.4	47.6	68.9	80.3	85.4	86.5	87.7	43.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	2985	3530	3600
Current (Amps)	79.0	73.0	53.5	12.1	5.1
Torque (ft-lb)	25.0	23.0	43.2	14.9	0.00

Information Block

HP	10.0			
Sync. RPM	3600			
Frame	213			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	47	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.45	Lb-Ft²		
Ref Wdg	K2132123 NONE			
Sound Pressure @ 1M	75	dBA		
VFD Rating	NONE			
Outline Dwg	SS86596-965			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.8910	0.4250	2.1840	1.2590	48.3200



Speed -Torque Curve

