

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213VTDC6001

Catalog No: V106A

Vertical Pump Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
213TPV Frame, WPI



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RegalRexnord

Nameplate Specifications

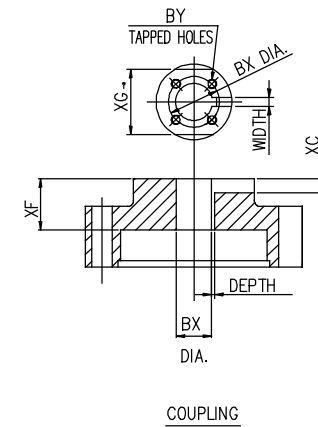
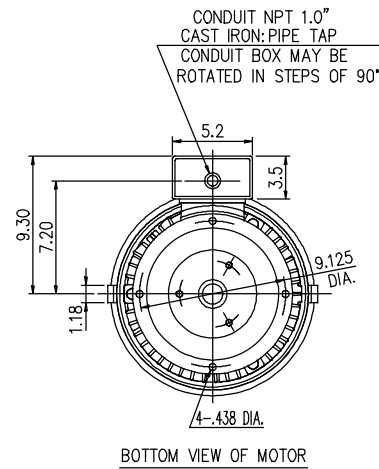
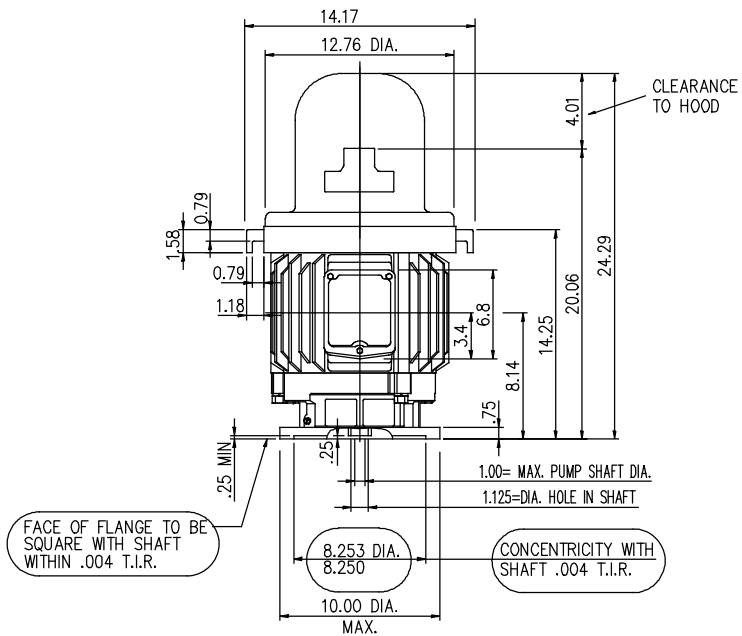
Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	3500 & 2915 rpm	Service Factor	1.15 & 1.15
Frame	213TPV	Enclosure	Weather Protected 1
Thermal Protection	No Protection	Efficiency	88.5 & 86.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	18.8/9.4 & 15.8/7.9 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6209	Opp Drive End Bearing Size	7309B
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

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	Counterclockwise Rotation, Reversible without Non-Reversible Ratchet
Mounting	Round	Motor Orientation	Shaft Down
Drive End Bearing	Ball	Opp Drive End Bearing	Single Angular Contact
Frame Material	Cast Iron	Shaft Type	TP
Overall Length	24.29 in	Shaft Diameter	1.125 in
Shaft Extension	0.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 3:1		
Connection Drawing	EE7308DX	Outline Drawing	SS620833

COUPLING	BX DIA.	KEYWAY		BY	BZ	XF	XC
		WIDE	DEEP				
	1.001	0.250	0.140	10-32UNF	1.375	1.650	0.430
	0.751	N/A	N/A	N/A	N/A	N/A	N/A

SS620833



- (1) DIMENSIONS ARE IN INCHES
 (2) APPROXIMATE WEIGHT = 200 LBS
 (3) DRIVE END BEARING 6209
 OPPOSITE DRIVE END BEARING 7309B

- (4) END OF LINE TESTS - SPECIFIC TO EACH RATING
 *NO LOAD AMPS @ FULL VOLTAGE
 *NO LOAD WATTS @ FULL VOLTAGE
 *VIBRATION MEETS MG-1 STANDARD
 BALANCE 0.15 IN/S 3.8 MM/S

			TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION	DRAWN		
			DEC.	INCHES		CHK	APPD	SCALE
C	UPDATED PER MARK-UPS	ECD-0151417	VGJ	9-7-2018	AL XX ±.03	TITLE OUTLINE 213/215TP10 FRAME		
B	RE-PUBLISHED	ECD-0125813	VGJ	9-21-2017	EMH XXX ±.005			
A	RELEASED	ECD-0125213	VGJ	6-13-2017	AL XXXX ±.0005			
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	SIZE B	DRAWING NO. SS620833	REV. C	
			DIST					

T12 (W4) —
T1 (U1) —
T6 (W2) — L1
T7 (U3) —

T2 (V1) —
T4 (U2) —
T8 (V3) — L2
T10 (U4) —

T3 (W1) —
T5 (V2) —
T9 (W3) — L3
T11 (V4) —

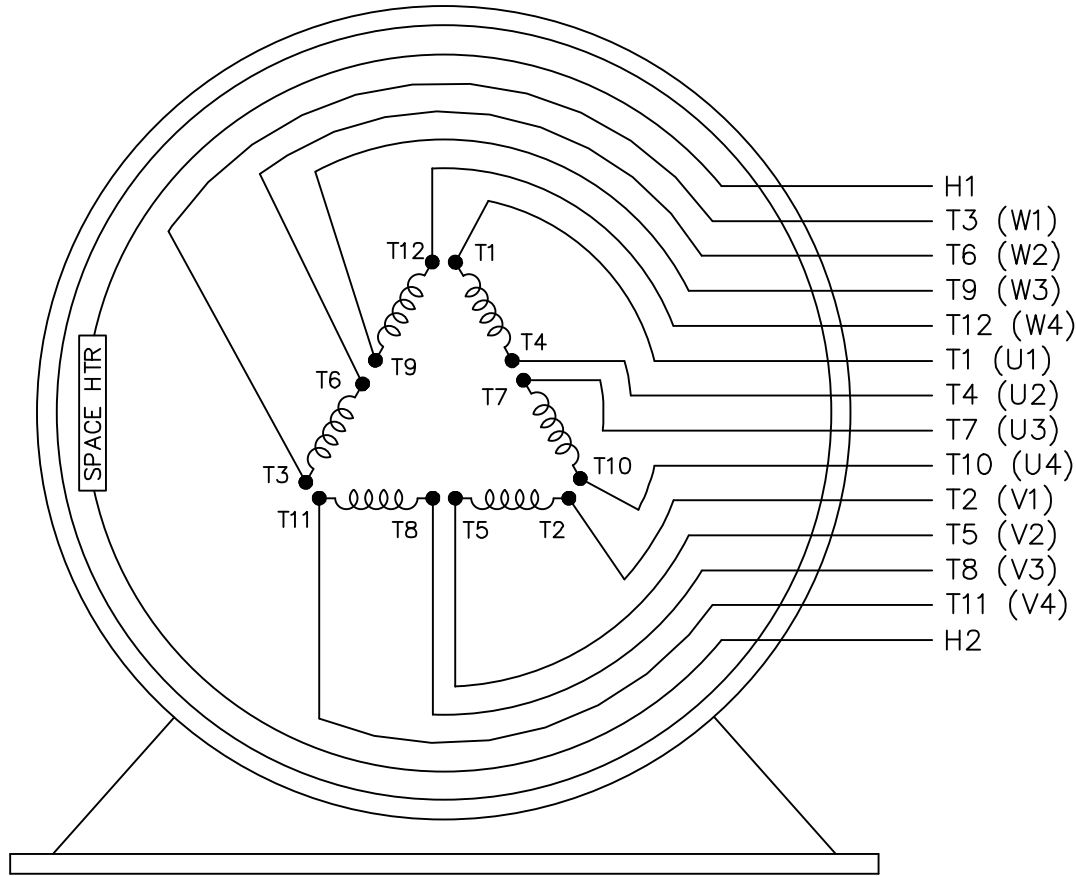
LOW VOLTAGE

T12 (W4) —
T1 (U1) — L1
T4 (U2) —
T7 (U3) —


T2 (V1) —
T10 (U4) — L2
T5 (V2) —
T8 (V3) —

T3 (W1) —
T11 (V4) — L3
T6 (W2) —
T9 (W3) —

HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN KL 02-05-1999		
				DEC.	INCHES		CHK	DJK	02-05-1999
				.X	± -	TITLE CONNECTION DIAGRAM 12 LEADS - 3 PHASE - 2/1 DELTA	APPD	DJK	02-05-1999
				.XX	± -		SCALE 1=1		
2	ADDED IEC MARKINGS	MU110339	MSG 10-15-2012	SJW .XXX	± -		REF		
1	NEW DRAWING	MU23624	KL 02-05-1999	DJK .XXXX	± -		FMF MU23624		
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH	PREV		
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				DIST			A	EE7308DX	2

CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: EE7308DX

MODEL #: 213VTDC6001 AA

OUTLINE: SS620833

MOUNTING: F1/F2 CAPABLE

WINDING #: TPE2132001 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	3600	3500&2915	213TPV	WPI	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB° C
3	60/50	230/460&190/380	18.8/9.4&15.8/7.9	PWS (LV ONLY) & YDRUN OR INV	CONTINUOUS	F	1.15/1.15	40

FULL LOAD EFF:	88.5&86.5	3/4 LOAD EFF:	89.5	1/2 LOAD EFF:	88.5	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	84&83	3/4 LOAD PF:	78.5	1/2 LOAD PF:	73.5	88.5		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.3 LB-FT	127 / 63.5	17.8 LB-FT 158 %	37 LB-FT 330 %	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	0.04 LB-FT^2	- LB-FT^2	15 SEC.	2	195 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE-10	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	SINGLE ANGULAR CONTACT	POLYREX EM	TP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6209	7309B						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	110 VOLTS

*

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INVERTER TORQUE: VARIABLE 3:1

INV. HP SPEED RANGE: NONE

ENCODER: NONE

NONE NONE

NONE NONE PPR

BRAKE: NONE NONE

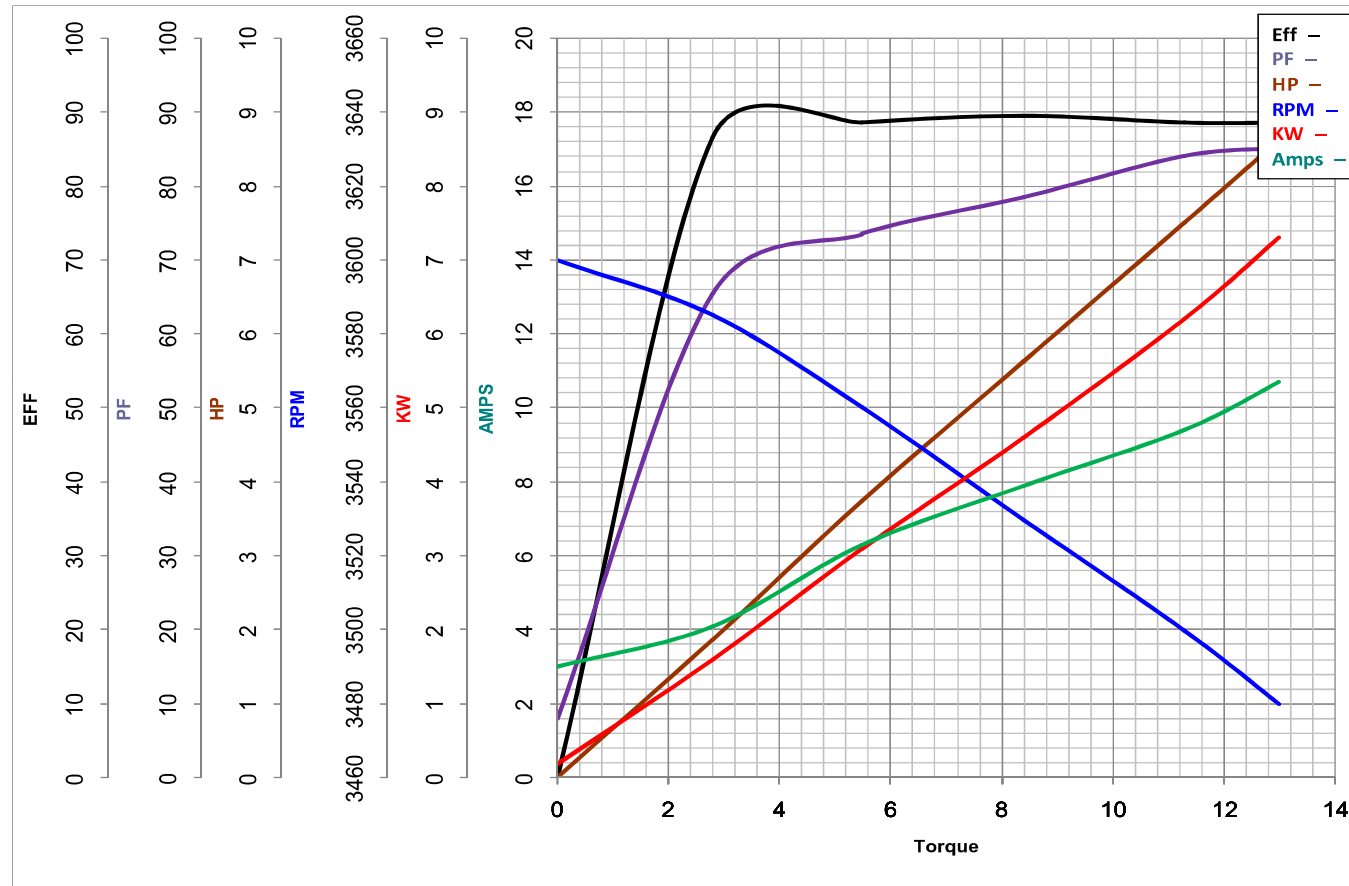
NONE P/N NONE

NONE NONE

NONE FT-LB NONE V NONE Hz

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer**Curve at**460**Volts****HP** 7.5&5**PHASE** 3**Model No** 213VTDC600160**HZ****VOLTS** 230/460&190/3807.5**HP****Catalog No** V106A**HZ** 60&50**RPM** 3500&2915**Torque in Lb.Ft****FL TORQUE** 11.3 **Lb.Ft****FL AMPS** 18.8/9.4**BD TORQUE** 37.0 **Lb.Ft****PU TORQUE** 15.0 **Lb.Ft****LR TORQUE** 17.8 **Lb.Ft****LR AMPS** 63.5**WINDING** TPE2132001-1**Date** 11/5/2018

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 213VTDC6001

(Model No. may contain prefix and/or suffix characters)

Catalog No : V106A

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22