

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTDW16075

Catalog No: U430A-P

XRI® General Purpose General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 213T Frame, DP



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RegalRexnord

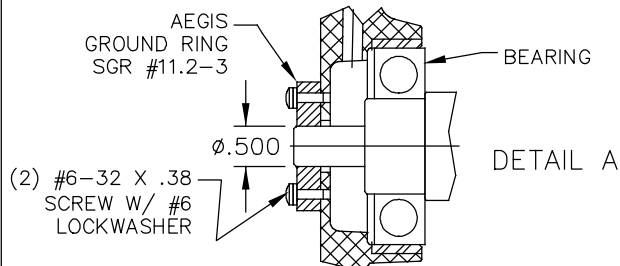
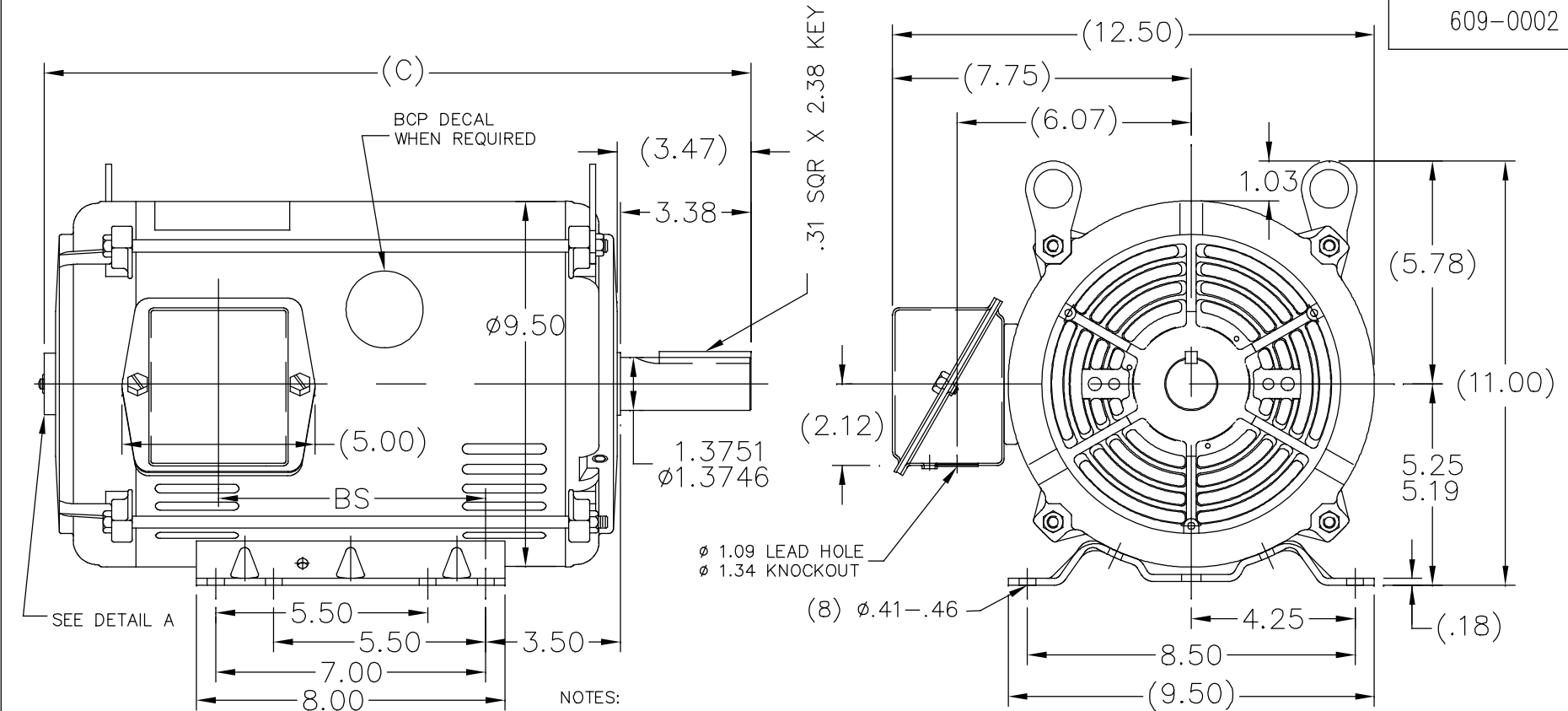
Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1760 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	213T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	19.2/9.6 & 16.4/8.2 A	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	307	Opp Drive End Bearing Size	206
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

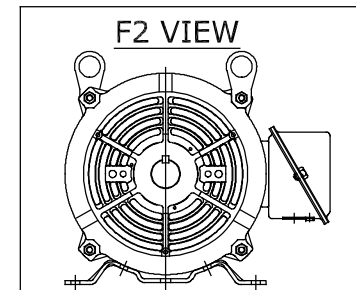
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.18 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	19.67 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	609-0002-1240	Connection Drawing	A-EE7308

609-0002



GROUND RING SCREWS ARE MOUNTED IN HORIZONTAL POSITION.

DASH	FR.	C	BS	MOUNTING
965	213T	16.75	5.43	
1115	213/15T	18.25	6.93	
1240	213/15T	19.50	8.18	F1 ONLY
1545	215T	22.88	11.23	F1 ONLY



				TOLERANCES UNLESS SPECIFIED		REGAL TM Regal Beloit America, Inc.	DRAWN LST 6/27/13			
				DEC.	INCHES		CHK	APPD	SCALE	1=4
				.X	$\pm .1$		PREV			
C	F2 VIEW ADDED	NK 07/03/18	GNK .XX	$\pm .03$		TITLE OUTLINE 210T FR. - BB - TS - DR.PR.				
B	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06-09-15	MDV .XXX	$\pm .005$						
A	LEAD HOLE & KNOCKOUT ADDED PER ECO-0059319	UD 09-03-14	ST .XXXX	$\pm .0005$						
NO.	REVISION	BY & DATE	CHK	ANG	$\pm 7'30''$	FINISH				
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 SS86668	SIZE A	DRAWING NO. 609-0002	PAGE OF	REV. C
				DIST LB						



				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	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR		REF
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L.		FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	FINISH		PREV
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			DIST WP				A	EE7308 5

CERTIFICATION DATA SHEET

Model#: 213TTDW16075 AA
 CONN. DIAGRAM: A-EE7308
 OUTLINE: 609-0002-1240

WINDING#: K2134182 NONE 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.6&3.70	1800	1760&1470	213T	DP	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	19.2/9.6&16.4/ 8.2	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 91&91	3/4 LOAD EFF: 91	1/2 LOAD EFF: 89.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80&75	3/4 LOAD PF: 75	1/2 LOAD PF: 64.8	89.5	SQ CAGE INV RATED	8.2 / 4.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	127 / 63.5	51 LB-FT 227	66 LB-FT 293	22

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	0.85 LB-FT^2	50 LB-FT^2	20 SEC.	2	125 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	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
307	206						

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: VARIABLE 10:1
 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

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DATE: 06/21/2017 10:35:26 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 1/7/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA

213TTDW16075



Submittal

Data @ 460 V

Motor Load Data

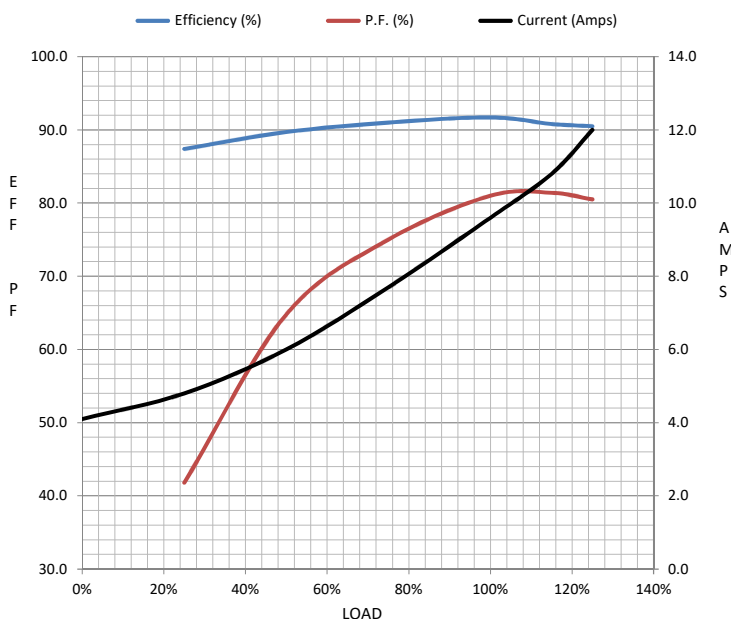
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.1	4.8	6.0	7.7	9.6	10.8	12.0	63.5	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.5	25.5	28.0	51.0	
RPM	1800	1790	1780	1775	1760	1,755	1752	0	
Efficiency (%)		87.4	89.7	91.0	91.7	90.8	90.5		
P.F. (%)	6.5	41.8	64.8	75.0	81.0	81.4	80.5	39.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1605	1760	1800
Current (Amps)	63.5	55.0	37.5	9.6	4.1
Torque (ft-lb)	51.0	40.0	66.0	22.5	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	22	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	3,300	feet		
Rotor/Shaft wk ²	0.85	Lb-Ft ²		
Ref Wdg	K2134182	NONE		
Sound Pressure @ 1M	66	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	609-0002			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7600	0.5590	2.6080	3.6970	57.4560



Speed -Torque Curve

