

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTDW16061

Catalog No: U433A

XRI® General Purpose General Purpose Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 215TC Frame, DP



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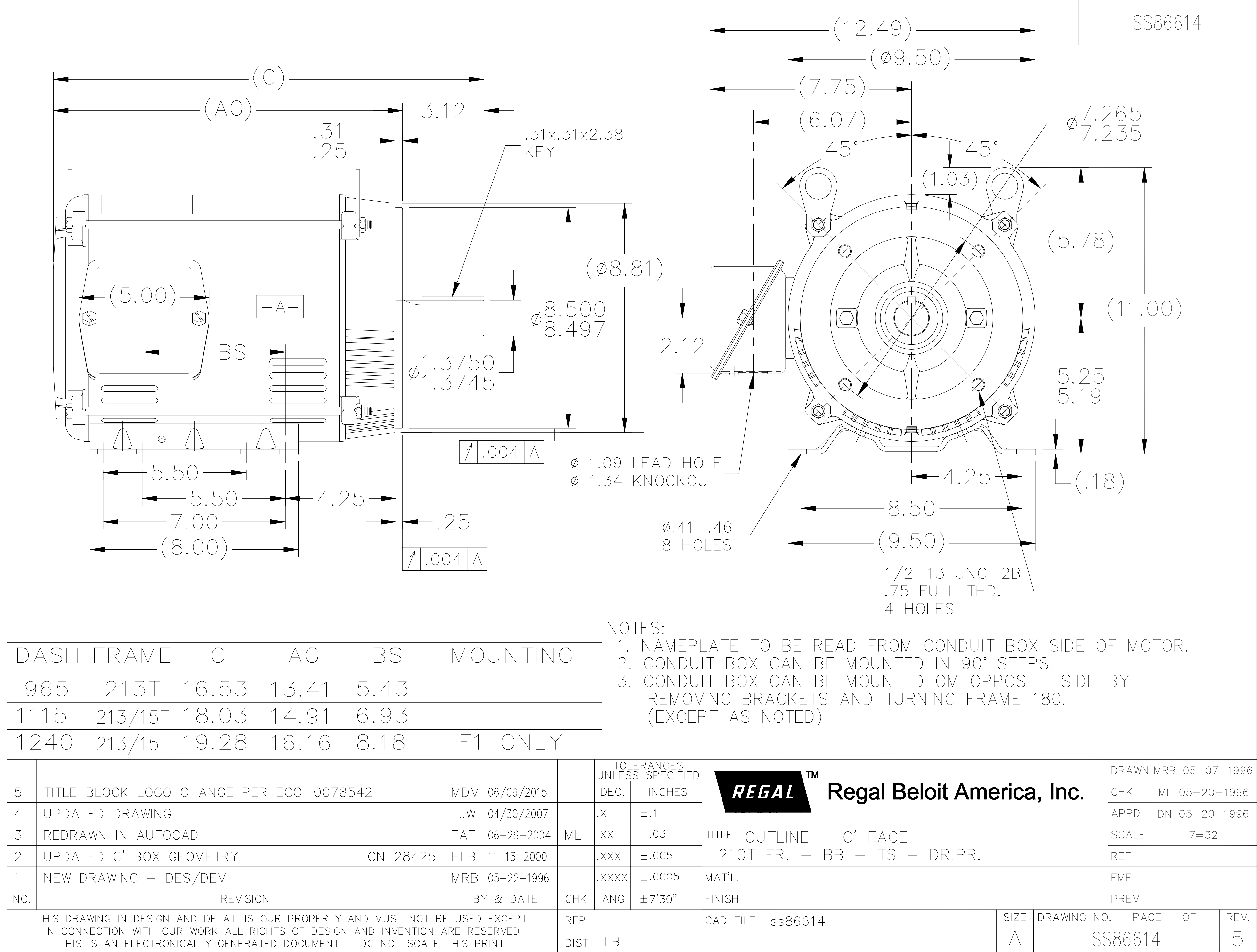
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	1760 & 1465 rpm	Service Factor	1.15 & 1.15
Frame	215TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	25/12.5 & 23.2/11.6 A	Power Factor	81
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	22
Number of Speeds	1		

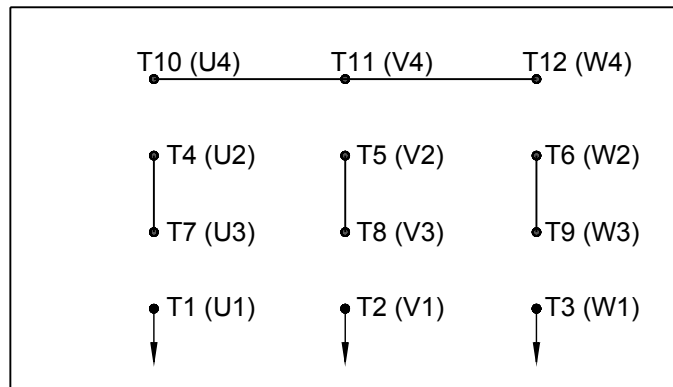
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.91 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	19.28 in
Frame Length	12.40 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7358	Outline Drawing	A-SS86614-1240

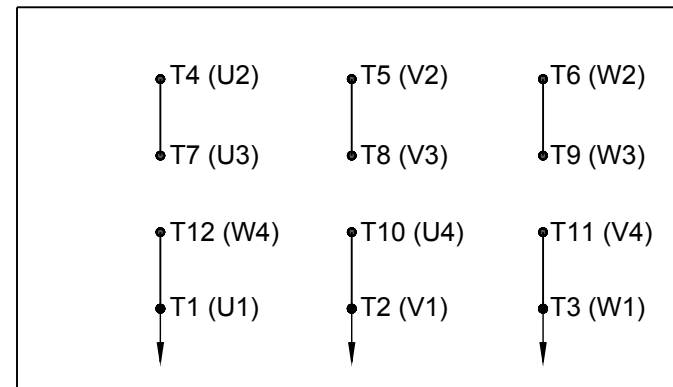


HIGH VOLTAGE

WYE START

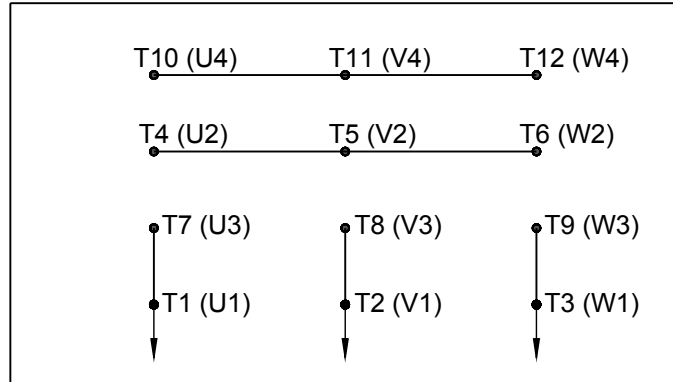


DELTA RUN

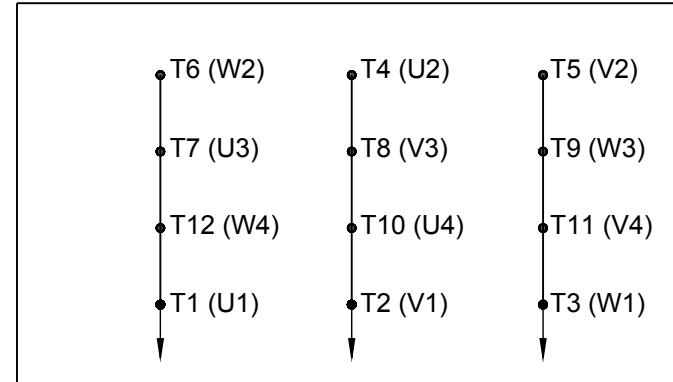


LOW VOLTAGE

WYE START



DELTA RUN

4/2 CKTY $\triangle$

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016		DRAWN BY BLR	 Regal Beloit America, Inc.			
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016		DATE 03-09-1998	DESCRIPTION CONN DIAGRAM-EXTERNAL 12 LEAD - DUAL VOLT. - WYE START - DELTA RUN			
ECO DESCRIPTION ADDED IEC MARKINGS				APPROVED BY GK				
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				REFERENCE	MATERIAL		PROCESS/FINISH	
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7358	

CERTIFICATION DATA SHEET

Model#: 215TTDW16061 AA
 CONN. DIAGRAM: A-EE7358
 OUTLINE: A-SS86614-1240

WINDING#: K2154306 NONE 5
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.5&5.6	1800	1760&1465	215TC	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	25/12.5&23.2/ 11.6	PWS(LV ONLY) & YDRUN	CONTINUOU S	B3	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&91	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81&80	3/4 LOAD PF: 77	1/2 LOAD PF: 67	90.2	SQ CAGE IND RUN	10 / 5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.8 LB-FT	152 / 76	63 LB-FT 211	81 LB-FT 272	38

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	1 LB-FT^2	60 LB-FT^2	20 SEC.	2	155 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	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	1045 HOT ROLLED (C-204)	ROLLED STEEL
6309	6206						

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

* N O T E S *	INVERTER TORQUE: NONE
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE
	NONE NONE NONE NONE PPR
	BRAKE: NONE NONE
	NONE P/N NONE
	NONE NONE
	- FT-LB NONE V NONE Hz

DATE: 06/22/2017 07:24:14 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



215TTDW16061

Submittal

Data @ 460 V

Motor Load Data

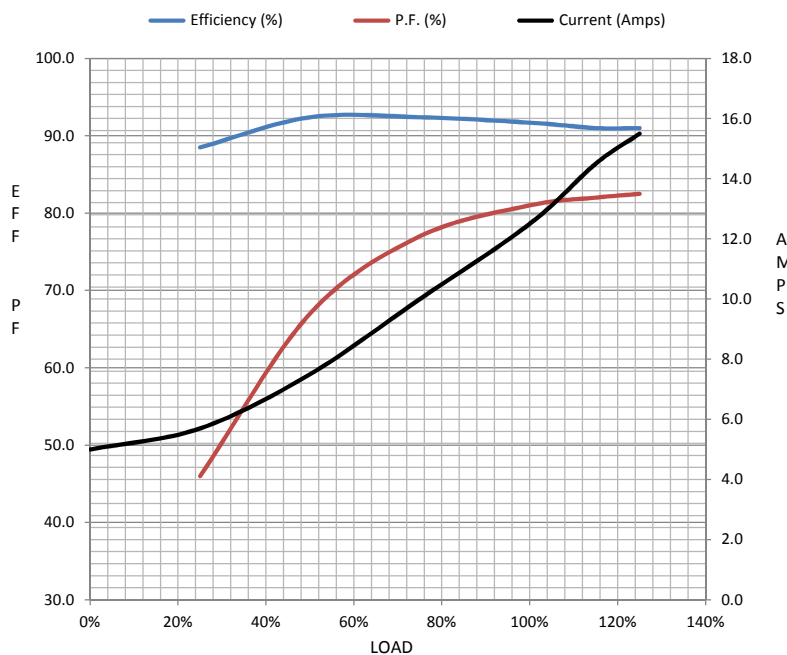
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.0	5.7	7.5	10.0	12.5	14.5	15.5	76.0	
Torque (ft-lb)	0.00	7.4	14.8	22.2	29.8	34.5	37.5	63.0	
RPM	1800	1790	1782	1775	1760	1,755	1750	0	
Efficiency (%)		88.5	92.4	92.4	91.7	91.0	91.0		
P.F. (%)	5.0	46.0	67.0	77.0	81.0	82.0	82.5	41.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1575	1760	1800
Current (Amps)	76.0	72.0	44.5	12.5	5.0
Torque (ft-lb)	63.0	57.0	81.0	29.8	0.00

Information Block

HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	DP			
Construction	TDW			
Voltage	230/460#190/38(V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	38 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.00 Lb-Ft ²			
Ref Wdg	K2154306 NONE			
Sound Pressure @ 1M	66 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS86614-1240			
Conn. Diag	A-EE7358			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.5650	0.4490	2.0850	3.0760	47.2860



Speed -Torque Curve

