PRODUCT INFORMATION PACKET

Model No: 215TTDW16340
Catalog No: C126B
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

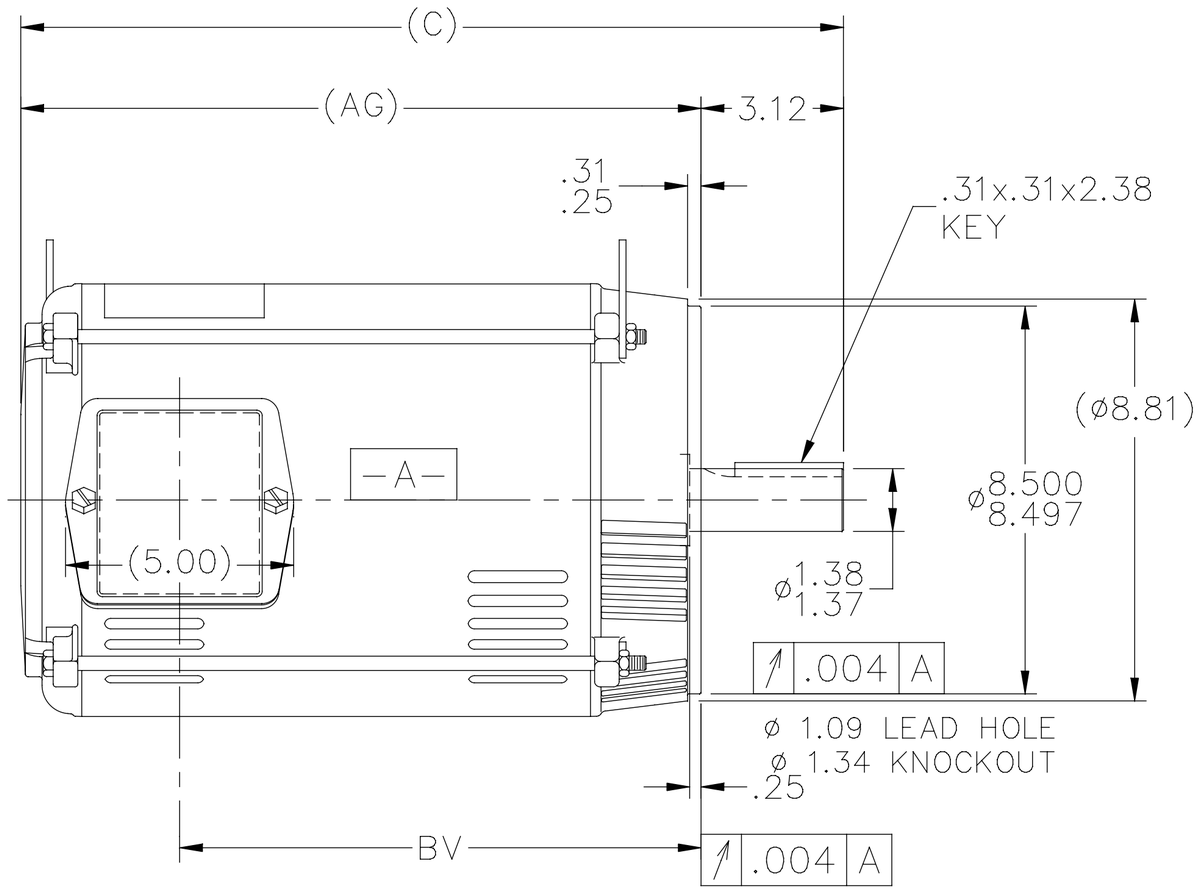
Nameplate Specifications

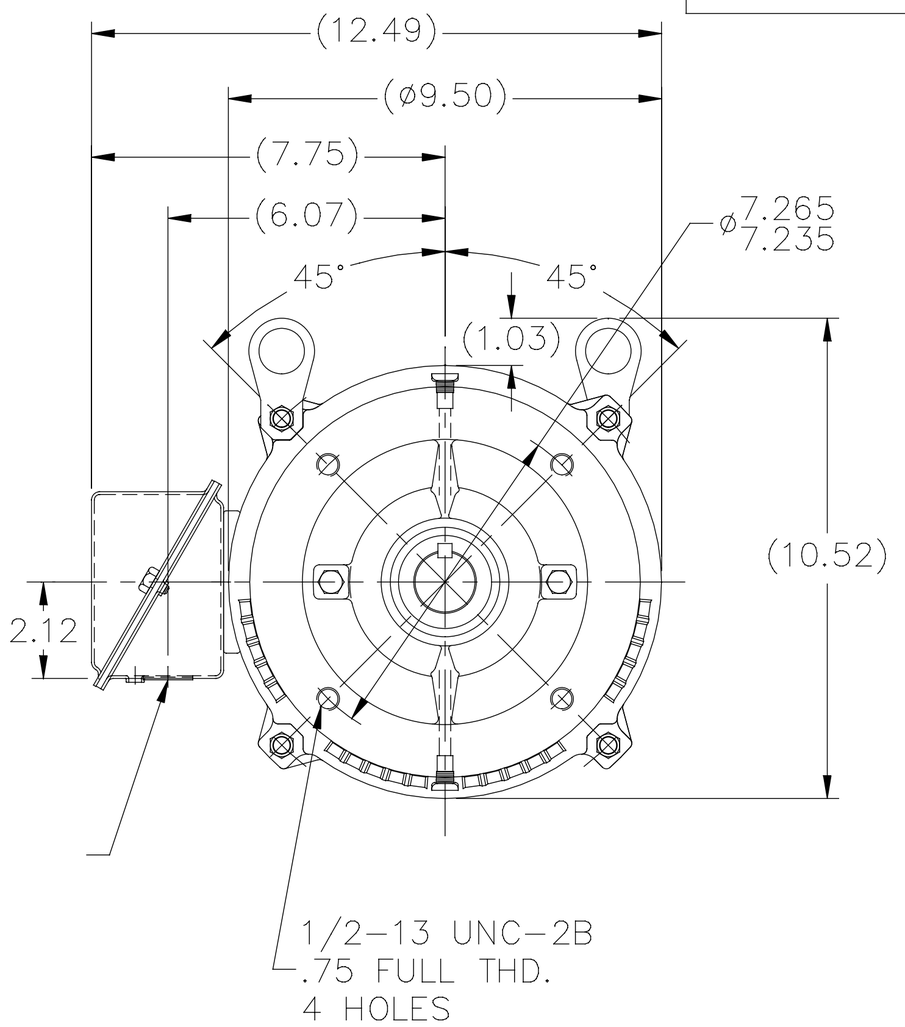
Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	1760 & 1465 rpm	Service Factor	1.15 & 1.15
Frame	215TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	25/12.5 & 23.2/11.6 A	Power 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	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.91 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	19.28 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1 ONLY		
Connection Drawing	EE7308	Outline Drawing	SS86595-1240

SS86595





DASH	FR.	C	AG	BV	MOUNTING
965	213T	16.53	13.41	9.93	
1115	213/15T	18.03	14.91	11.43	
1240	213/15T	19.28	16.16	12.68	

NOTES:
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.

NO.	REVISION	BY & DATE	CHK
5	REDRAWN WITH REGAL LOGO	SR 17-07-2015	
4	REDRAWN IN AUTOCAD	TAT 06-29-2004	ML
3	UPDATED C' BOX GEOMETRY CN 28425	DRS 01-31-2000	SR
2	REMOVED NOTE: "C' BOX CAN BE MOUNTED ON	MJD 09-02-1999	
	OPPOSITE SIDE OF MOTOR" CN 23925-495		
1	NEW DRAWING – DES/DEV	DA 04-02-1996	

TOLERANCES UNLESS SPECIFIED	
DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

REGAL™ Regal Beloit America, Inc.

TITLE OUTLINE
210T FR. – BB – TS – DR.PR. –C' FACE

DRAWN	DA 03-26-1996
CHK	ML 04-01-1996
APPD	DN 04-01-1996
SCALE	1=5
REF	
FMF	
PREV	

MAT'L.
FINISH

RFP
DIST LB
CAD FILE ss86595

SIZE	DRAWING NO.	PAGE	OF	REV.
A	SS86595			5

EE7308

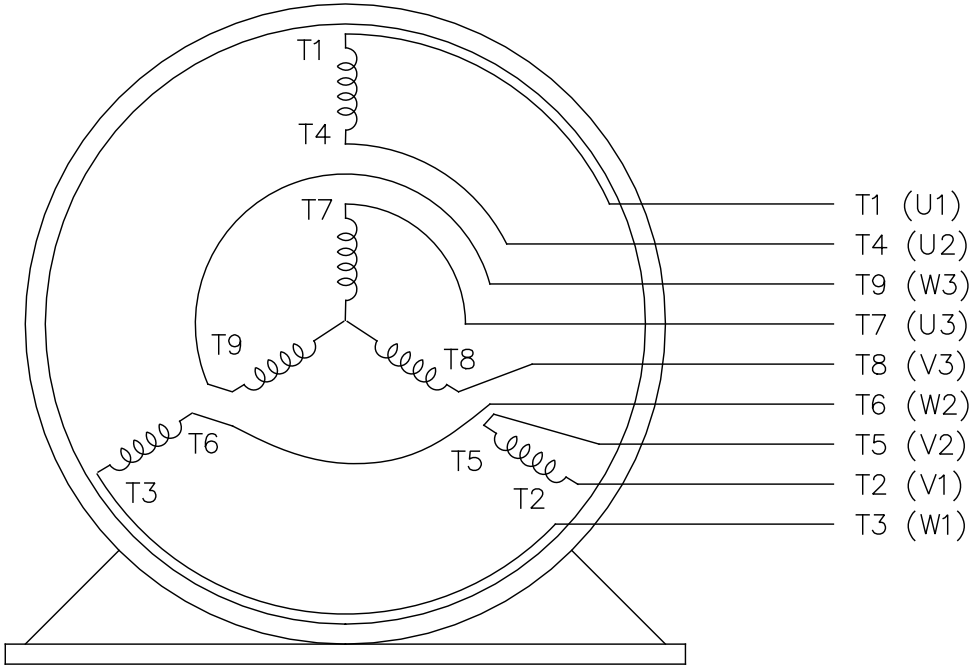
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

NO.	REVISION	BY & DATE	CHK
5	CHG TO REGAL LOGO	SL 09/10/2015	AB
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
1	REDRAWN	RM 11/20/1990	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.
FINISH
CAD FILE ee7308
RFP
DIST WP

DRAWN RM	11/20/1990
CHK ML	11/21/1990
APPD SAS	04/24/2003
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7308 | PAGE OF | REV. 5

CERTIFICATION DATA SHEET

Model#:	215TTDW16340 AA	**WINDING#:**	K2154306 NONE 1
CONN. DIAGRAM:	EE7308	**ASSEMBLY:**	F1 ONLY
OUTLINE:	SS86595-1240		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	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	ACROSS THE LINE	CONTINUOUS	B4	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	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6206	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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: NONE
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

* NOTES *

DATE: 06/22/2017 07:25:13 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/19/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

215TTDW16340

Submittal

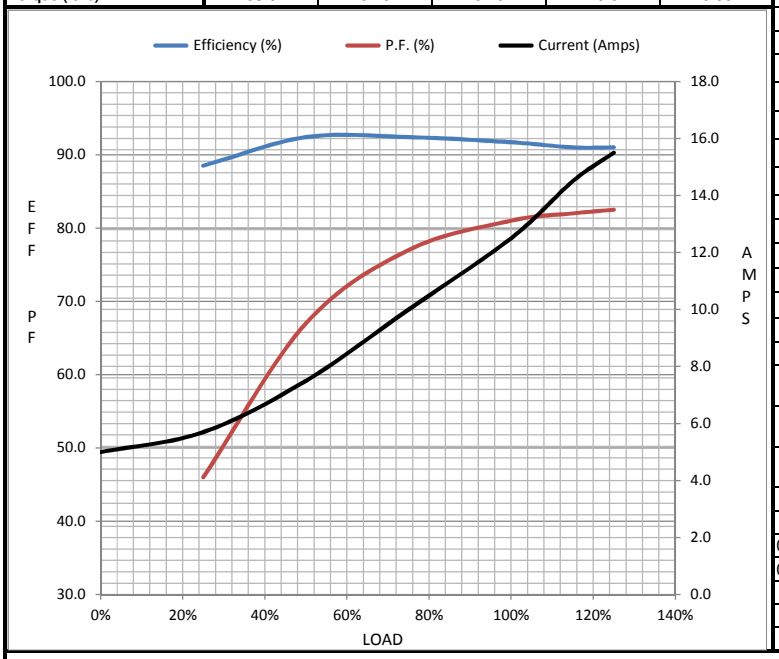
Data @ 460 V

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#190/380 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 wk²	1.00 Lb-Ft²
Ref Wdg	K2154306 NONE
Sound Pressure @ 1M	66 dBA
VFD Rating	NONE
Outline Dwg	SS86595-1240
Conn. Diag	EE7308
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.5650	0.4490	2.0850	3.0760	47.2860

Speed -Torque Curve