PRODUCT INFORMATION PACKET

Model No: 213TTDWD16063
Catalog No: U405B
XRI® General Purpose General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 213TC Frame, DP

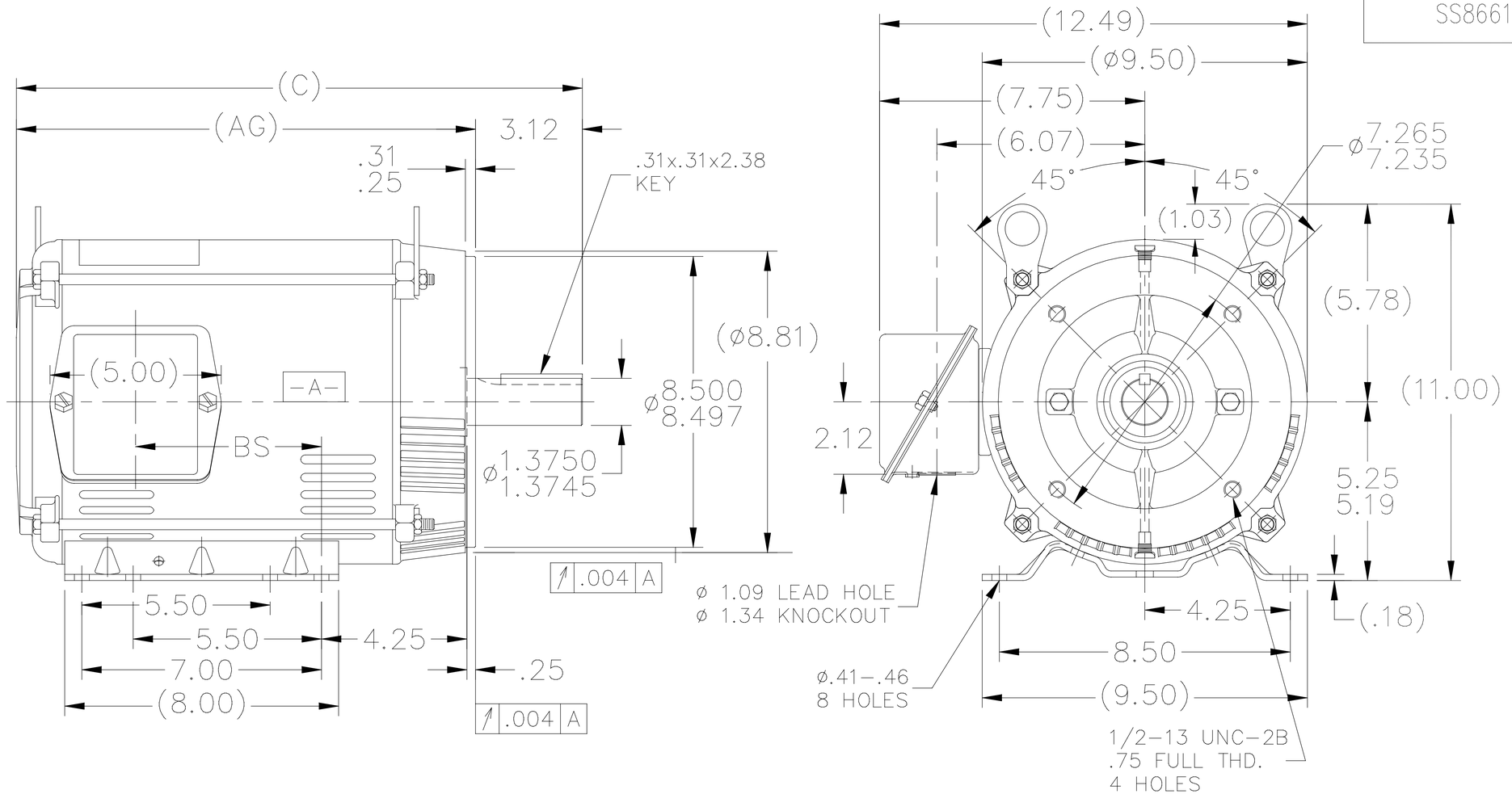
Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1765 & 1470 rpm	Service Factor	1.15 & 1.0
Frame	213TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	20/10 & 16.4/8.2 A	Power Factor	77.1
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
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	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	1.56 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	18.03 in
Frame Length	11.50 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	005517.01	Outline Drawing	SS86614-1115

SS86614



DASH	FRAME	C	AG	BS	MOUNTING
965	213T	16.53	13.41	5.43	
1115	213/15T	18.03	14.91	6.93	
1240	213/15T	19.28	16.16	8.18	F1 ONLY

NOTES:
1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
2. CONDUIT BOX CAN BE MOUNTED IN 90° STEPS.
3. CONDUIT BOX CAN BE MOUNTED OM OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180. (EXCEPT AS NOTED)

NO.	REVISION	BY & DATE	CHK
5	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06/09/2015	
4	UPDATED DRAWING	TJW 04/30/2007	
3	REDRAWN IN AUTOCAD	TAT 06-29-2004	ML
2	UPDATED C' BOX GEOMETRY CN 28425	HLB 11-13-2000	
1	NEW DRAWING - DES/DEV	MRB 05-22-1996	

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

REGAL™ Regal Beloit America, Inc.

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

MAT'L.

FINISH

CAD FILE ss86614

RFP

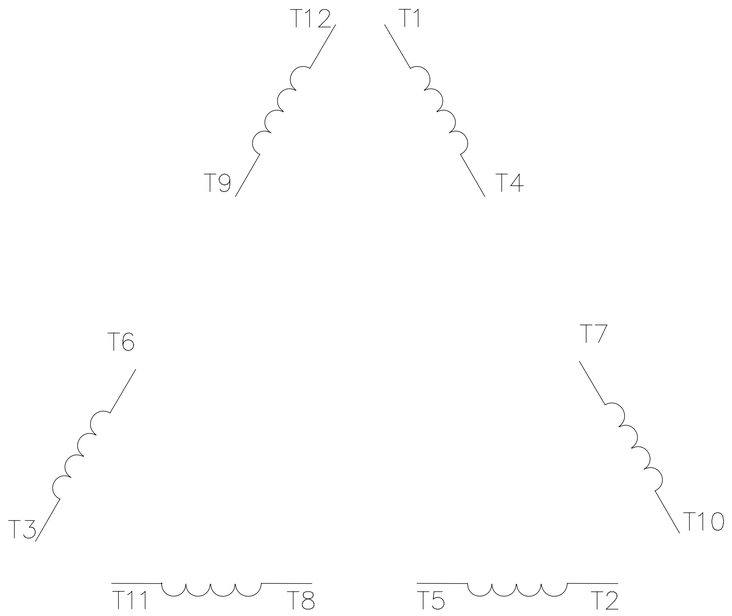
DIST LB

DRAWN	MRB 05-07-1996
CHK	ML 05-20-1996
APPD	DN 05-20-1996
SCALE	7=32
REF	
FMF	
PREV	

SIZE A | DRAWING NO. SS86614 | PAGE OF | REV. 5

005517.01

ROTATION CAN BE REVERSED BY
INTERCHANGING ANY TWO LINE LEADS



HIGH VOLTAGE

START (1Y) – RUN (1D) CONNECTION				
	LINE 1	LINE 2	LINE 3	JOIN & INSULATE
START (1Y)	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9) (T10,T11,T12)
RUN (1D)	T1,T12	T2,T10	T3,T11	(T4,T7) (T5,T8) (T6,T9)

LOW VOLTAGE

START (2Y) – RUN (2D) CONNECTION				
	LINE 1	LINE 2	LINE 3	JOIN & INSULATE
START (2Y)	T1,T7	T2,T8	T3,T9	(T4,T5,T6) (T10,T11,T12)
RUN (2D)	T1,T6 T7,T12	T2,T4 T8,T10	T3,T5 T9,T11	△

				TOLERANCES UNLESS SPECIFIED		Regal Beloit America, Inc.	DRAWN JD 11/10/2011
				DEC.	INCHES		CHK AK 11/10/2011
				.X	±.1		APPD
				.XX	±.01	TITLE EXT. WIRING DIAGRAM WYE START DELTA RUN	SCALE 1=1
				.XXX	±.005		REF 005517.01ME
A	NEW DRAWING	SAJ 06/26/15	AJAY	.XXXX	±.0005	MAT'L. DECAL – 081378	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PREV

RFP
DIST
CAD FILE 00551701

SIZE	DRAWING NO.	REV.
A	005517.01	A

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: 005517.01
OUTLINE: SS86614-1115
WINDING: K2134278 NONE 4
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 213TTDWD16063
CAT #: U405B
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	1800	1765	213TC	DP	TDW	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	20/10&16.4/8.2	WYE START DELTA RUI	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.0	1/2 LD EFF	89.9	GTD EFF	ELECT. TYPE
F.L. PF	77.1	3/4 LD PF	71.3	1/2 LD PF	58.1	89.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
22.3 LB-FT	61.0	45.3 LB-FT 203%	66.1 LB-FT 296%	35	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
66 dBA	75 dBA	0.85 LB-FT²	50 LB-FT²	20 SEC.	2	125 LB.

*** SUPPLEMENTAL INFORMATION ***

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

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

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
0.76	0.559	2.608	3.697	57.456	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY: FAREEDA DUDEKULA
DATE: 8/31/2018

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

Data Sheet

Date: 12/14/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

213TTDWD16063

Submittal

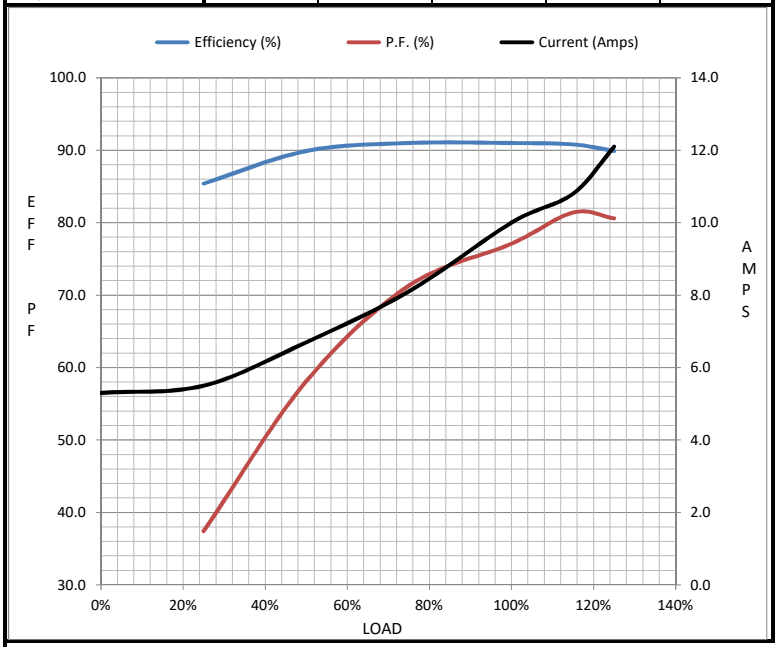
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.3	5.5	6.7	8.1	10.0	10.8	12.1	61.0	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	25.5	28.0	45.3	
RPM	1800	1792	1784	1775	1765	1,755	1748	0	
Efficiency (%)		85.4	89.9	91.0	91.0	90.8	89.9		
P.F. (%)	5.2	37.4	58.1	71.3	77.1	81.4	80.6	44.8	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1575	1765	1800
Current (Amps)	61.0	55.0	37.0	10.0	5.3
Torque (ft-lb)	45.3	40.0	66.1	22.3	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	35	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.85	Lb-Ft²
Ref Wdg	K2134278 NONE	
Sound Pressure @ 1M	66	dBA
VFD Rating	NONE	
Outline Dwg	SS86614-1115	
Conn. Diag	005517.01	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.7600	0.5590	2.6080	3.6970	57.4560