

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTDR16101

Catalog No: H185B

3 HP General Purpose Motor, 3 phase, 900 RPM, 230/460 V, 215T Frame, ODP
General Purpose Motors



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RegalRexnord

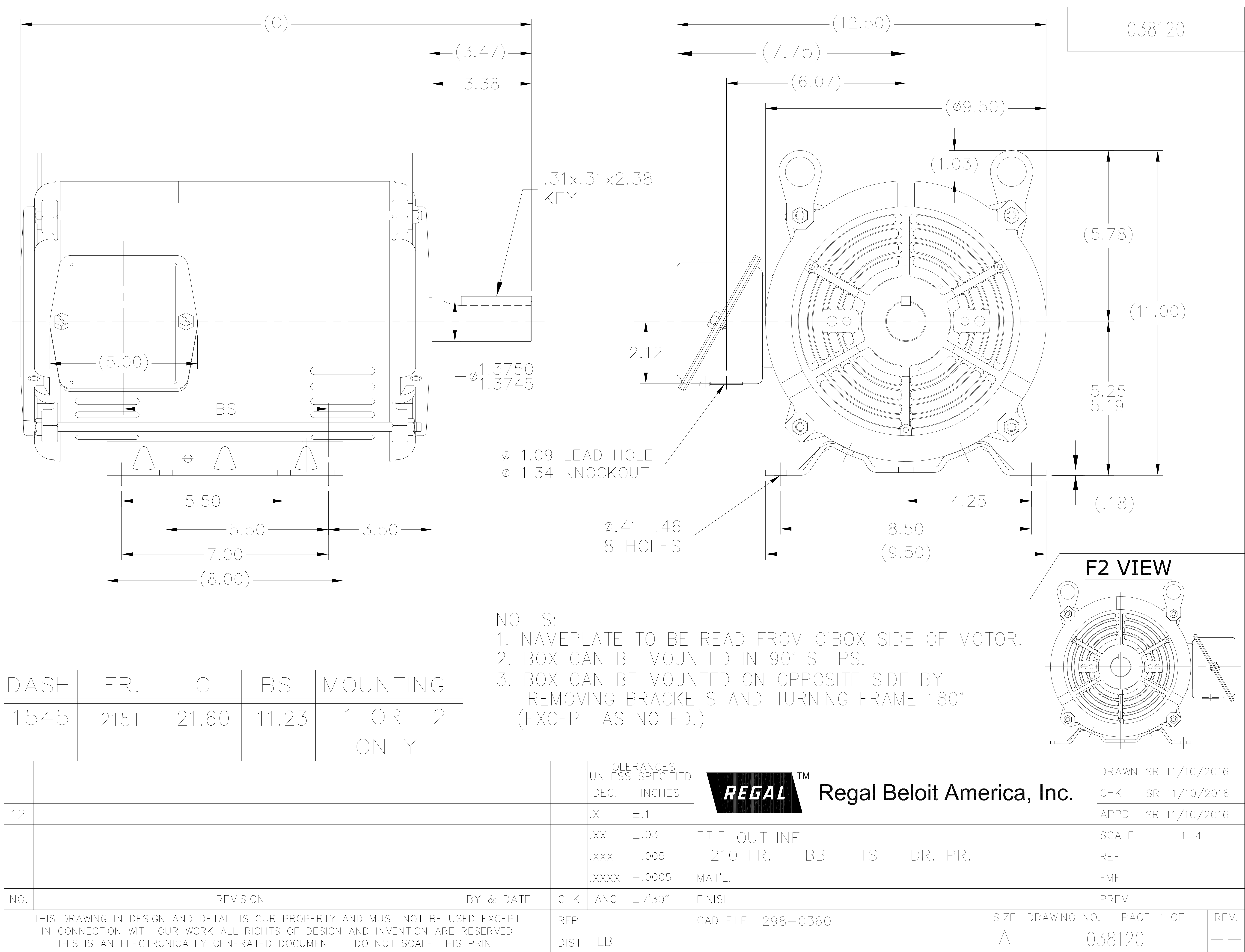
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	10.0/5.0 A	Speed	875 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Power Factor	64
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	H
Frame	215T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6307	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	8	Rotation	Reversible
Resistance Main	2.5 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	21.60 in
Frame Length	15.53 in	Shaft Diameter	1.375 in
Shaft Extension	3.47 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	038120-1545	Connection Drawing	EE7308

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				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
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 ee7308		SIZE	DRAWING NO. PAGE OF REV.
			DIST WP				A	EE7308



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
ORDER #: _____ REFERENCE MODEL #: 215TTDR16101
CONN. DIAGRAM: EE7308 CAT #: H185B
OUTLINE: 038120-1545 CUSTOMER PART #: _____
WINDING: 215869 NONE 1 MOUNTING: F1 ONLY
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	900	875	215T	DP	TDW	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	10/5	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	86.5	1/2 LD EFF	85.1	GTD EFF	84.0	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	64.0	3/4 LD PF	58.3	1/2 LD PF	46.4				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
18.0 LB-FT	24.0	27.0 LB-FT 150%	46.0 LB-FT 256%	40

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA	1.00 LB-FT²	0 LB-FT²	20 SEC.	4	125 LB.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6307 6206						

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
2.1	2.261	8.864	10.69	82.964	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

PREPARED BY: FAREEDA DUDEKULA	BRAKE: NONE
DATE: 9/10/2018	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC

Data Sheet

Date: 11/29/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



215TTDR16101

Submittal

Data @ 460 V

Motor Load Data

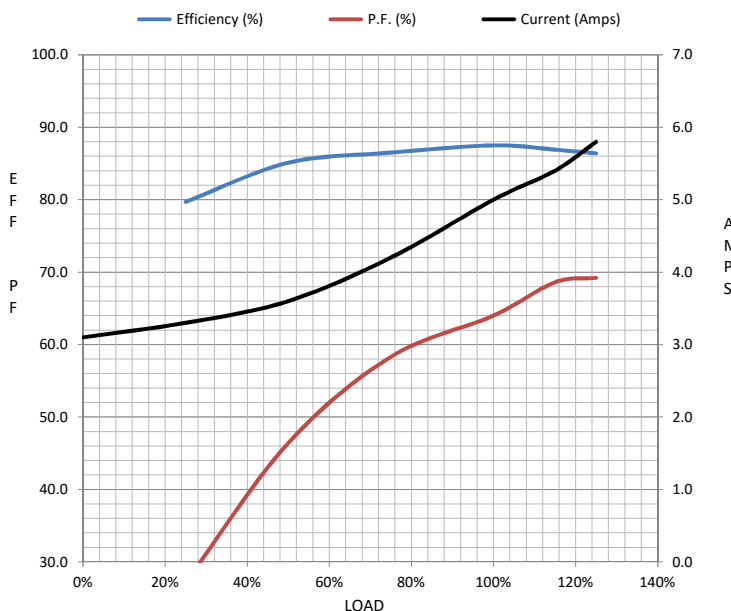
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.1	3.3	3.6	4.2	5.0	5.4	5.8	24.0	
Torque (ft-lb)	0.00	4.5	9.0	13.5	18.0	20.5	22.5	27.0	
RPM	900	892	885	880	875	870	865	0	
Efficiency (%)		79.7	85.1	86.5	87.5	86.9	86.4		
P.F. (%)	5.9	27.2	46.4	58.3	64.0	68.6	69.2	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	770	875	900
Current (Amps)	24.0	21.5	16.0	5.0	3.1
Torque (ft-lb)	27.0	24.5	46.0	18.0	0.00

Information Block

HP	3.0			
Sync. RPM	900			
Frame	215			
Enclosure	DP			
Construction	TDR			
Voltage	230/460	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	40	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	1.00	Lb-Ft²		
Ref Wdg	215869	NONE		
Sound Pressure @ 1M	62	dBA		
VFD Rating	NONE			
Outline Dwg	038120-1545			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.1000	2.2610	8.8640	10.6900	82.9640



Speed -Torque Curve

