

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215THFND9026

Catalog No: W539A

10 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 215T Frame, TEFC
IEEE 841 Motors



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REGAL



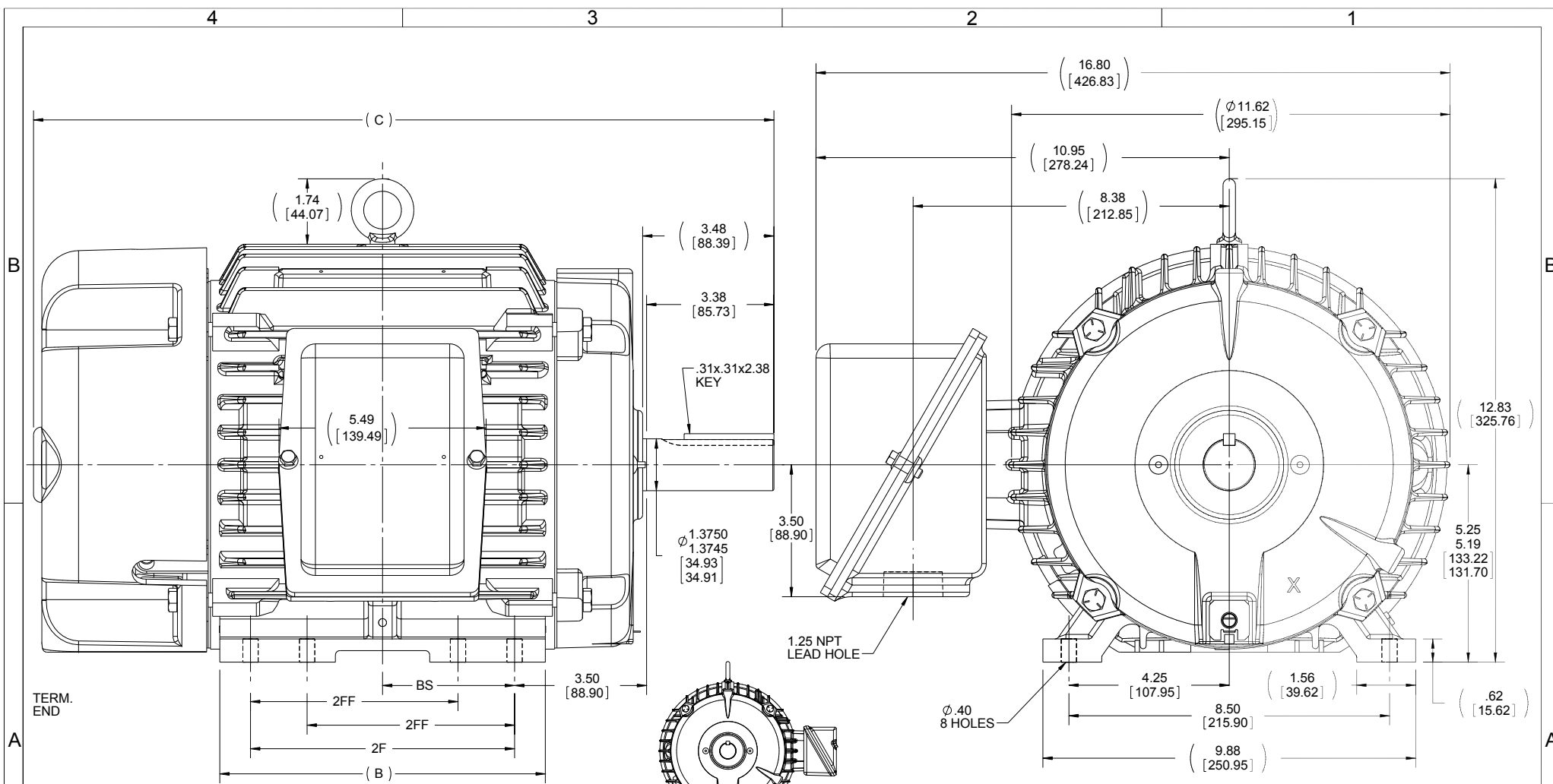
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	460 V
Current	13.3 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	76.9
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	215T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Hazardous Location	DIVISION 2 T2B		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.941 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.375 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	038010-1212	Connection Drawing	EE7300

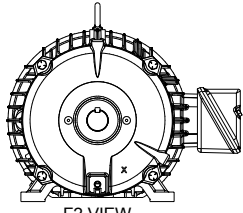
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TERM. END

NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



1212	213/215	22.63	11.76	10	7	5
912	213/215	19.63	8.63	7	5.5	3.5
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION A	REVISION BY SAJID	DATE 07/06/2015
ECO ECO-0080958	APPROVED BY ST	DATE 07/06/2015
ECO DESCRIPTION NEW DRAWING		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	+0.1	[+2.5]
.XX	+0.03	[+0.76]
.XXX	+0.005	[+0.127]
.XXXX	+0.0005	[+0.0127]
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51]		
MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$		
mm SHOWN IN [BRACKETS]		

DRAWN BY SAJID
DATE 07/06/2015
APPROVED BY ST
DATE 07/06/2015
REFERENCE 037657
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION	OUTLINE
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER 038010
	SHEET 1 OF 1

**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**



DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300
SHEET 1 OF 1	



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 #: 215THND9026
 CONN. DIAGRAM: EE7300 CAT #: W539A
 OUTLINE: 038010-1212
 WINDING: K2154512 NONE 2 CUSTOMER PART #: _____
 SPEED: _____ MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
10	7.5	1800	1765	215T	TEFC	TEN	H	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	13.3	LINE OR INVERTER	CONT	F	1.15	40	3300
	F.L. EFF		3/4 LD EFF	90.9	1/2 LD EFF	90.6	GTD EFF	ELECT. TYPE	
	F.L. PF		3/4 LD PF	70.1	1/2 LD PF	57.2	90.2	SO CAGE INV BATED	
	F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)				
	29.8 LB-FT	81.0	71.0 LB-FT	238%	89.0 LB-FT	239%	55		
	@ 3 FT. DBA	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	START/SHOUR	MOTOR WGT		
	62	71 DBA	1.00 LB-FT ²	277 LB-FT ²	25 SEC.	2	150 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	UM SEVERE	DIVISION 272B	NO	NONE	BLUE (EPOXY)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE BALL 6307	BALL 6208	POLYREX EM	T	NONE	1144 STRESSPROOF (C-223)	CAST IRON		
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		
0.612	0.457	1.855	2.156	35.888	0.080	ODE		

INVERTER TORQUE: CONSTANT 20:1
 INV. HP SPEED RANGE: NONE

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

PREPARED BY: FAREEDA DUDEKULA
 DATE: 11/2/2018
 FORM: 3531 REV 4 2/27/06
 UL: V/INS, CONST UL REC

Data Sheet

215THFND9026

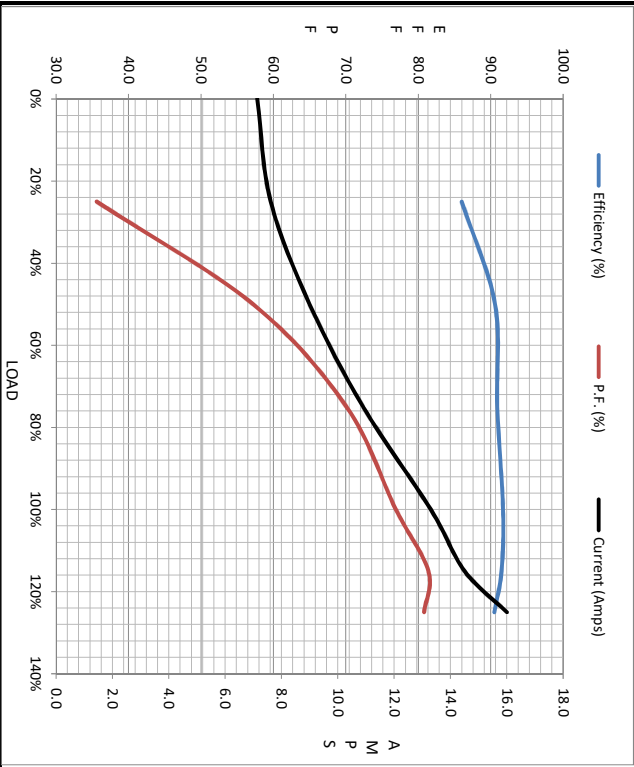


Submital Data @ 460 V

Date: 11/2/2018
 Customer:
 Attention:
 Submitted by: FAREEDA DUDEKULA

Load	Motor Load Data									
	0%	25%	50%	75%	100%	115%	125%	LR		
Current (Amps)	7.1	7.6	9.0	10.9	13.3	14.5	16.0	81.0		
Torque (ft-lb)	0.00	7.3	14.7	22.0	29.8	34.5	37.4	71.0		
RPM	1800	1791	1780	1771	1765	1,755	1755	0		
Efficiency (%)		86.0	90.6	90.9	91.7	91.5	90.5			
P.F. (%)	4.7	35.6	57.2	70.1	76.9	81.4	80.8	42.0		

	Motor Speed Data					Information Block																		
	LR	Pull-Up	BD	Rated	Idle	HP	Frame	Enclosure	Construction	Voltage	Frequency	Design	LR Code letter	Service Factor	Temp Rise @ FL	Duty	Ambient	Elevation	Motor/Shaft wk ²	Sound Pressure @ 1M	VFD Rating	Outline Dwg	Conn. Diag	Additional Specifications:
Speed (RPM)	0	900	1575	1765	1800	100	1800	TEFC	TFN	460	60	B	H	1.15	55	CONT	40	1,000	1.00	62	CONSTANT 20:1	038010-1212	EE7300	
Current (Amps)	81.0	72.0	49.0	13.3	7.1		2151821TFC080																	
Torque (ft-lb)	71.0	59.0	29.8	29.8	0.00																			



HP	Frame	Enclosure	Construction	Voltage	Frequency	Design	LR Code letter	Service Factor	Temp Rise @ FL	Duty	Ambient	Elevation	Motor/Shaft wk ²	Sound Pressure @ 1M	VFD Rating	Outline Dwg	Conn. Diag	Additional Specifications:
100	1800	TEFC	TFN	460	60	B	H	1.15	55	CONT	40	1,000	1.00	62	CONSTANT 20:1	038010-1212	EE7300	

