## PRODUCT INFORMATION PACKET



Model No: 5011LSTHFCD9028 Catalog No: Y9269

XRI®-841 Severe Duty Motor, 500 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 5011LS Frame, TEFC



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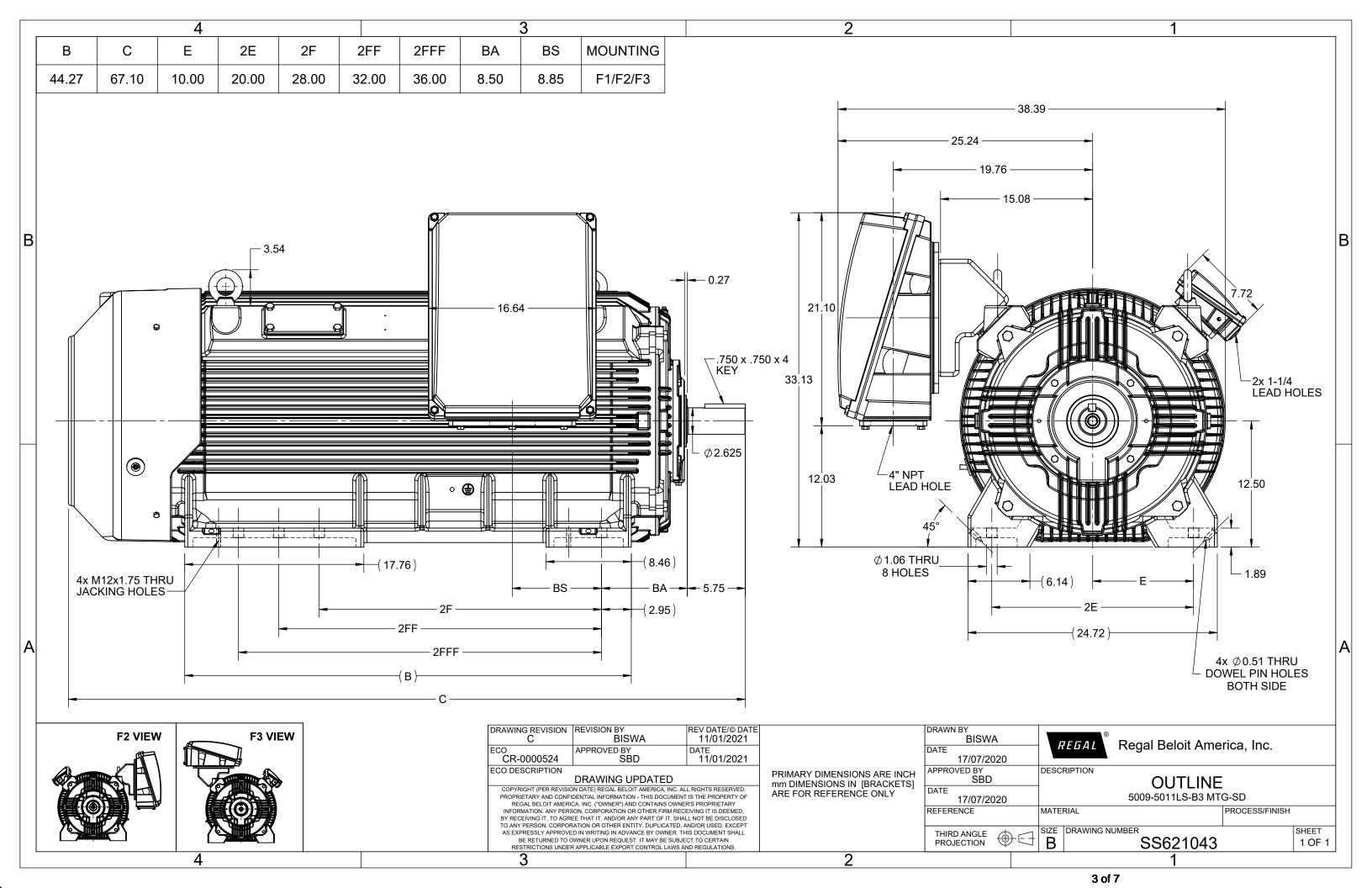
## Nameplate Specifications

Output HP	500 Hp	Output KW	370.0 kW		
Frequency	60 Hz	Voltage	460 V		
Current	540.0 A	Speed	1787 rpm		
Service Factor	1.15	Phase	3		
Efficiency	96.2 %	Power Factor	90.2		
Duty	Continuous	Insulation Class	Н		
Design Code	В	KVA Code	G		
Frame	5011LS	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6319		
UL	Recognized	CSA	Υ		
CE	Υ	IP Code	56		
Number of Speeds	1				

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0056 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	LS	Shaft Diameter	2.875 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS621043	Connection Drawing	EE7300CD

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THREE PHASE - SINGLE VOLTAGE MOTOR OR INDUCTION GENERATOR WITH 6 RTD'S 2 PER PHASE MARKED R1 THRU R6, AND ONE SPACE HEATER MARKED H1 & H2.

#### IF MOTOR HAS MULTIPLE T'S PER LEAD CONNECT TOGETHRE LIKE T'S

T1 (U1)
T1 (U1)

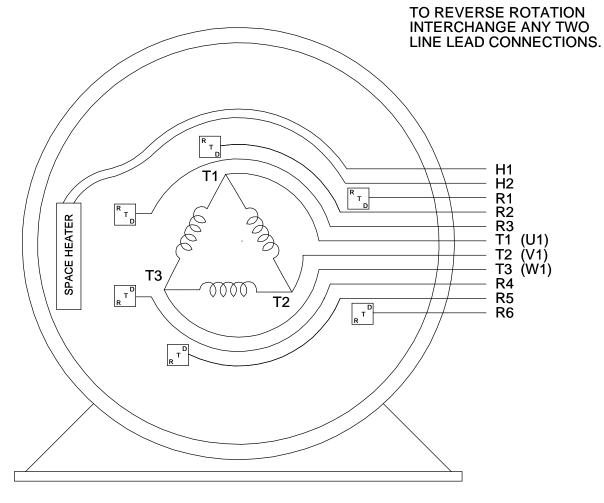
T2 (V1)
T2 (V1)

T3 (W1)
T3 (W1)

L1

L2

L3



### VIEW OF TERMINAL END

DRAWING REVISION	REVISION BY	REV DATE/© DATE
C	SD	12/13/2019
ECO	APPROVED BY	DATE
ECO-0178718	GM	12/13/2019
ECO DESCRIPTION		

A-9806 DECAL

LOGO UPDATED

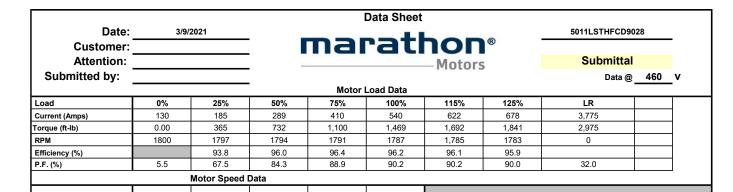
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ш	TOLERA	NCES (E	XCEPT AS	NOTED):
	DEC.	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>
	X.	±0.1	[±3]	±7' 30"
	.XX	±0.02	[ ±0.5]	
	XXX.	±0.005	[±0.13]	
	.XXXX.	±0.0005	[±0.013]	
	REMOVE	BURRS	& BREAK	SHARP
	EDGES:	.003/.015	5 [.08/.38] X	45 °
	CORNER	REPORT OF THE STATE OF THE STAT	S: R.02 [.5]	
	MACHINE	ED SURF	ACES: 20	
			INCH \	
	mm DIME	ENSIONS	IN [BRACK	(ETS]
			ENČE ONL	

•	DRAWN BY RM DATE 03-27-1991	REGAL® Regal Beloit America, Inc.	
	APPROVED BY ML DATE 03-27-1991	CONNECTION DIAGRAM SINGLE VOLT - 3 <mod-diam> MOTOR</mod-diam>	
/	REFERENCE	MATERIAL PROCESS/FINISH	
	THIRD ANGLE PROJECTION	SIZE DRAWING NUMBER EE7300CD	SHEET 1 OF 1

										P.O. BOX 80				
marathon®									WAUSAU, WI 54401-8003					
					IIIc	31'c	*HOIL			PH. 715-67	5-3311			
							Motors							
							1-10(013		DAT	A VOLTS:	460			
						CE	RTIFICATION DATA	SHEET	•					
	_													
CUSTOME ORDER #:									OMER P.O. #: CE MODEL #:	E011L CTUE	CD0020			
CONN. DIA		EE7300CD					r	LILKLIN	CAT #:	JUTILITIES	W665			
OUTLINE:	OTAII.	SS621043						CUSTO	MER PART #:		***************************************			
WINDING:			A33154023	NONE	1				MOUNTING:	F1/F2 CAPA	BLE			
SPEED:														
						<b>TYPICA</b>	L MOTOR PERFORM	ANCE	DATA					
НР	ĸw	SYNC RE	РМ	FL	RPM		FRAME	ENC	LOSURE	TYPE	KVA CODE	!	DESIGN	
500	373	1800		1	787		5011LS		TEFC	TFC	G		В	
1														
PH	HZ	VOLTS	s T	A	MPS		START TYPE		DUTY	INSL	S.F.	AMB(° C)	ELEV.(Ft.)	
3	60	460			540	1	INE OR INVERTER		CONT	Н	1.15	40	3300	
-		100												
	F.L. EFF	96.2		3/4 LD EFF	96.4		1/2 LD EFF	96.0	GTD EFF		ELEC	T. TYPE		
	F.L. PF	90.2		3/4 LD PF	88.9		1/2 LD PF	84.3	95.8		SQ CAGE	INV RATED		
	. TORQUE		AMPS@	460 V			TORQUE		B.D. TORQUE		F.L. RISE (°	C)		
1,469	LB-FT		3,775		2,975	LB-FT	203%	3,575	LB-FT	243%	75			
		1										-		
SOUND	RESSURE @ 3 FT.	SOUND	POWER	POTO	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE	STALL TIME	,	STARTS/HOUR	APROX.	MOTOR WGT	
85	dBA	94 dBA	TOTAL		LB-FT <sup>2</sup>	<u> </u>	LB-FT <sup>2</sup>	50	SEC.	,	2		LB.	
				•		*** S	UPPLEMENTAL INFORM	ATION *						
				MOUNT				HAZ	ARDOUS	DRIP				
	ACKET TYPE	ODE BRACKE		TYPE	MOTOR ORI		SEVERE DUTY		LOCATION COVER SCREENS		PAINT			
SI	ANDARD	STANDA	RD	RIGID	HORIZO	NIAL	PREMIUM SEVERE DUTY	-	NONE	NO	NONE	BL	UE (EPOXY)	
DE	ARINGS		1			1						1		
DE	ODE	GREAS	SE	SHAF	T TYPE		SPECIAL DE	SPE	CIAL ODE	SHAF	T MATERIAL	FRA	ME MATERIAL	
BALL	BALL	5011/551					NONE			4045 HOT DOLLED (0.004)				
6322	6319	POLYREX	EM		LS		NONE		NONE	1045 F	HOT ROLLED (C-204)	1	CAST IRON	
							•					•		
			$\neg$									SPACE	HEATERS	
	RMOSTATS	PROTECT			RTD's		BRG RTD's		RMISTORS	CONTROL				
	NONE	NOT	Y	ATINUM TWO	O PER PHASE	1 PL/	ATINUM DE AND ODE		NONE		FALSE	SILIC	ONE FREE 120V	
D1	(ohms/ph)	R2 (ohms	(nh)	¥1 (o	hms/ph)	1	X2 (ohms/ph)	Ym /	ohms/ph)	VII	BRATION (in/sec)	1	FLOAT	
	0.004	0.004			.032		0.071		2.03	VII	0.080	ODE		
	0.004	0.004			.002		0.071		2.00		0.000		OBL	
*														
N									INVERTER	TORQUE:	CONSTANT 2:1/VARIABLE	10:1		
0									INV. HP SPEEI	D RANGE: 1	NONE			
Т														
E									ENCODER:	NONE				
S									NONE					
*									NONE			NONE	PPR	
									BRAKE:					
	PREPARED BY:	3/9/202	14				0		NON	NE	NONE			
	DATE:	3/9/202	:1						FT-LB:		NA NONE		HZ:	
FORM: 35	21 DEV/ /	2/27/06					-	101 -	VOLTAGE: V - LI,ME-INS	CONSTIL	NONE REC		HZ:	
i Olvivi. 35	∪ i I\∟ V_4	4141100						UL:	v - LI,IVIL-INC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				



Idle

1800

130

Information Block

Х2 0.0710 2.0300

Rated

1787

540

Current (Amps)		0,110	3,000	1,550	] 570	100		1		300.0	
Forque (ft-lb)		2,975	2,550	3,575	1,469	0.00		Sync. RPM		1800	
								Frame		5011	
	— E	ficiency (%)	— P.F. (%	<u> </u>	Current (Amps)			Enclosure		TEFC	
100.0						800.0		Construction		TFC	
100.0						800.0		Voltage		460	V
						#		Frequency		60	Hz
90.0					<del></del>	700.0		Design		В	
								LR Code letter		G	
E						600.0		Service Factor		1.15	
F 80.0						Ħ		Temp Rise @ I	FL	75	° C
F						<b>—</b>	Α	Duty		CONT	
						500.0		Ambient		40	° C
P 70.0							P S	Elevation		3,300	feet
F						400.0	١	Rotor/Shaft wk	2	217	Lb-Ft²
								Ref Wdg		HA33154023 NONI	E
60.0						300.0		Sound Pressur	e @ 1M	85	dBA
50.0								VFD Rating		CONSTANT 2:1/VA	ARIABLE 10:1
50.0						200.0		Outline Dwg		SS	6621043
								Conn. Diag		EE	7300CD
40.0						100.0		Additional Spec	cifications:		
								0			
								0			
30.0	2001	400/	500/	20/ 1000/	1200/	0.0		L		CKT (OHMS / PHASI	
0%	20%	40%		0% 100%	120%	140%		R1	R2	X1	X2
			LOAD					0.0040	0.0040	0.0320	0.0710

LR

0

3,775

Speed (RPM)

Current (Amps)

Pull-Up

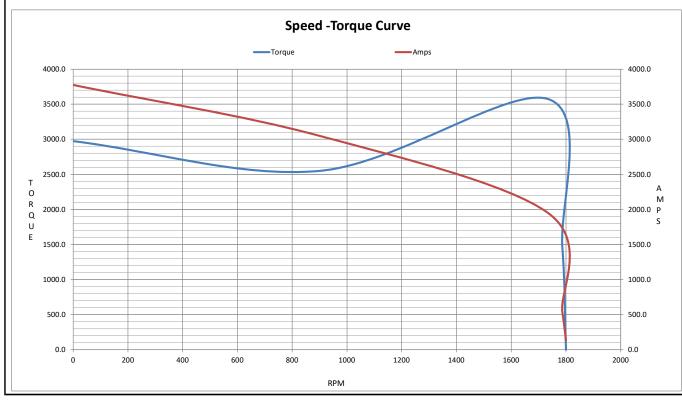
900

3,050

BD

1735

1,950





# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 5011LSTHFCD9028

(Model No. may contain prefix and/or suffix characters)

Catalog No: Y9269

Rework No: N/A

#### **Directives:**

Low Voltage Directive 2014/35/EU

### Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer