

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 5011LXVFS6546

Catalog No: Y938

500 HP 500,1800,TEFC,5011LX(BAR),3/60/2300/4000, 3 phase, 1800 RPM, 2300/4000 V, 5011LX Frame, TEFC



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RegalRexnord



Nameplate Specifications

Technical Specifications

Shaft Diameter	3.875 in
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CERTIFICATION DATA SHEET

Model#: 5011LXVFS6546 BE
 CONN. DIAGRAM: A-EE7304AC
 OUTLINE: B-SS518707-4950

WINDING#: V511443 NONE 0
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
500	370	1800	1785	5011LX	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	2300/4000	110/63.5	ACROSS THE LINE	CONTINUOUS	H1	1.15	40	3300

FULL LOAD EFF: 96.5	3/4 LOAD EFF: 96.5	1/2 LOAD EFF: 96.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5	3/4 LOAD PF: 87	1/2 LOAD PF: 81.5	96.2	SQ CAGE IND RUN	29.5 / 17

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1470 LB-FT	725 / 416.9	1950 LB-FT 133	3650 LB-FT 248	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
88 dBA	98 dBA	220 LB-FT^2	- LB-FT^2	20 SEC.	2	4900 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6324	6318	POLYREX EM	LX	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	PLATINUM TWO PER PHASE 100	NONE	NONE	FALSE	120 VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE
	NONE NONE PPR
* N O T E S *	BRAKE: NONE NONE
	NONE P/N NONE
	NONE NONE
	NONE FT-LB NONE V NONE Hz

DATE: 06/28/2017 05:31:31 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



5011LXVFS6546

Submittal

Data @ 4000 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	17.0	22.7	34.2	48.0	63.3	72.5	79.4	417	
Torque (ft-lb)	0.00	366	732	1,100	1,470	1,693	1,842	1,950	
RPM	1800	1796	1792	1790	1785	1,782	1780	0	
Efficiency (%)		93.6	96.2	96.5	96.5	96.5	96.2		
P.F. (%)	4.5	63.0	81.5	87.0	88.5	89.0	89.0	22.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	900	1725	1785	1800																													
Current (Amps)	417	374	230	63.3	17.0																													
Torque (ft-lb)	1,950	1,750	3,650	1,470	0.00																													
— Efficiency (%) — P.F. (%) — Current (Amps) <table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>93.0</td><td>63.0</td><td>17.0</td></tr><tr><td>50</td><td>95.0</td><td>80.0</td><td>25.0</td></tr><tr><td>75</td><td>96.0</td><td>86.0</td><td>38.0</td></tr><tr><td>100</td><td>96.0</td><td>88.0</td><td>50.0</td></tr><tr><td>125</td><td>96.0</td><td>89.0</td><td>82.0</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	93.0	63.0	17.0	50	95.0	80.0	25.0	75	96.0	86.0	38.0	100	96.0	88.0	50.0	125	96.0	89.0	82.0	Information Block				
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						25	93.0	63.0	17.0																									
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						HP		500.0																										
						Sync. RPM		1800																										
						Frame		5011																										
						Enclosure		TEFC																										
						Construction		TFN																										
						Voltage		2300/4000 V																										
						Frequency		60 Hz																										
						Design		A																										
						LR Code letter		G																										
						Service Factor		1.15																										
Temp Rise @ FL		75 ° C																																
Duty		CONT																																
Ambient		40 ° C																																
Elevation		1,000 feet																																
Rotor/Shaft wk²		220 Lb-Ft²																																
Ref Wdg		V511443 NONE																																
Sound Pressure @ 1M		88 dBA																																
VFD Rating		NONE																																
Outline Dwg		B-SS518707-4950																																
Conn. Diag		A-EE7304AC																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1		R2		X1		X2		Xm																										
0.4290		0.2960		3.8350		3.9380		135.0320																										

Speed -Torque Curve

