

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 5011LXVFS6547
Catalog No: Y939
600,1800,TEFC,5011LX(BAR),3/60/2300/4000



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RegalRexnord



Nameplate Specifications

Technical Specifications

Shaft Diameter	3.875 in
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CERTIFICATION DATA SHEET

Model#: 5011LXVFS6547 BF
 CONN. DIAGRAM: A-EE7304AC
 OUTLINE: B-SS518707-4950

WINDING#: V511457 NONE 0
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
600	450	1800	1788	5011LX	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	2300/4000	136/78	ACROSS THE LINE	CONTINUOUS	H1	1.15	40	3300

FULL LOAD EFF: 96.5	3/4 LOAD EFF: 96.5	1/2 LOAD EFF: 95.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 85	3/4 LOAD PF: 82	1/2 LOAD PF: 75	96.2	SQ CAGE IND RUN	48 / 27.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1765 LB-FT	900 / 517.5	2300 LB-FT 130	4500 LB-FT 255	85

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
88 dBA	98 dBA	275 LB-FT^2	- LB-FT^2	20 SEC.	-	5550 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

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

DATE: 06/28/2017 05:32:15 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



5011LXVFS6547

Submittal

Data @ 4000 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	27.6	32.8	45.4	61.0	78.2	89.1	97.2	518	
Torque (ft-lb)	0.00	438	878	1,320	1,765	2,030	2,210	2,300	
RPM	1800	1796	1794	1790	1788	1,785	1782	0	
Efficiency (%)		93.0	95.8	96.5	96.5	96.5	96.5		
P.F. (%)	4.0	54.0	75.0	82.0	85.0	86.0	86.0	20.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	900	1725	1788	1800																													
Current (Amps)	518	460	288	78.2	27.6																													
Torque (ft-lb)	2,300	1,700	4,500	1,765	0.00																													
— Efficiency (%) — P.F. (%) — Current (Amps) <table border="1"><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</td><td>45</td><td>20</td></tr><tr><td>50</td><td>95</td><td>75</td><td>40</td></tr><tr><td>75</td><td>96</td><td>83</td><td>60</td></tr><tr><td>100</td><td>96.5</td><td>86</td><td>80</td></tr><tr><td>125</td><td>96.8</td><td>87</td><td>100</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	93	45	20	50	95	75	40	75	96	83	60	100	96.5	86	80	125	96.8	87	100	Information Block				
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	93	45	20																									
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						75	96	83	60																									
						100	96.5	86	80																									
						125	96.8	87	100																									
						HP		600.0																										
						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		275 Lb-Ft²																																
Ref Wdg		V511457 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																										
0.2640		0.2320		2.7480		3.8190		86.7270																										

Speed -Torque Curve

