

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 5011LXVFS6547  
Catalog No: Y939  
600,1800,TEFC,5011LX(BAR),3/60/2300/4000  
Medium And High Voltage NEMA Motors



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RegalRexnord

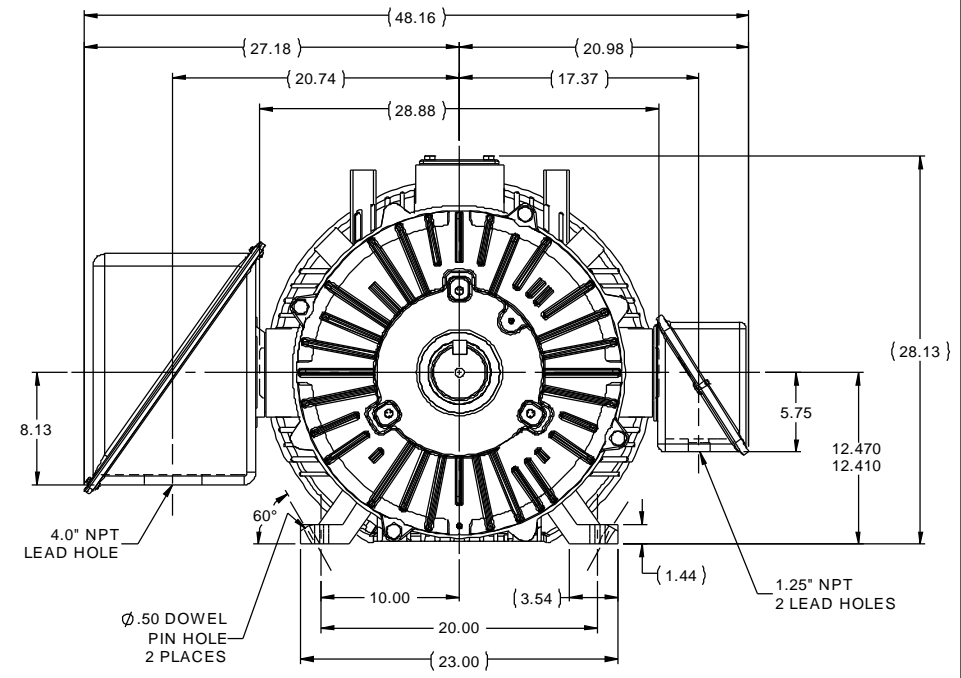
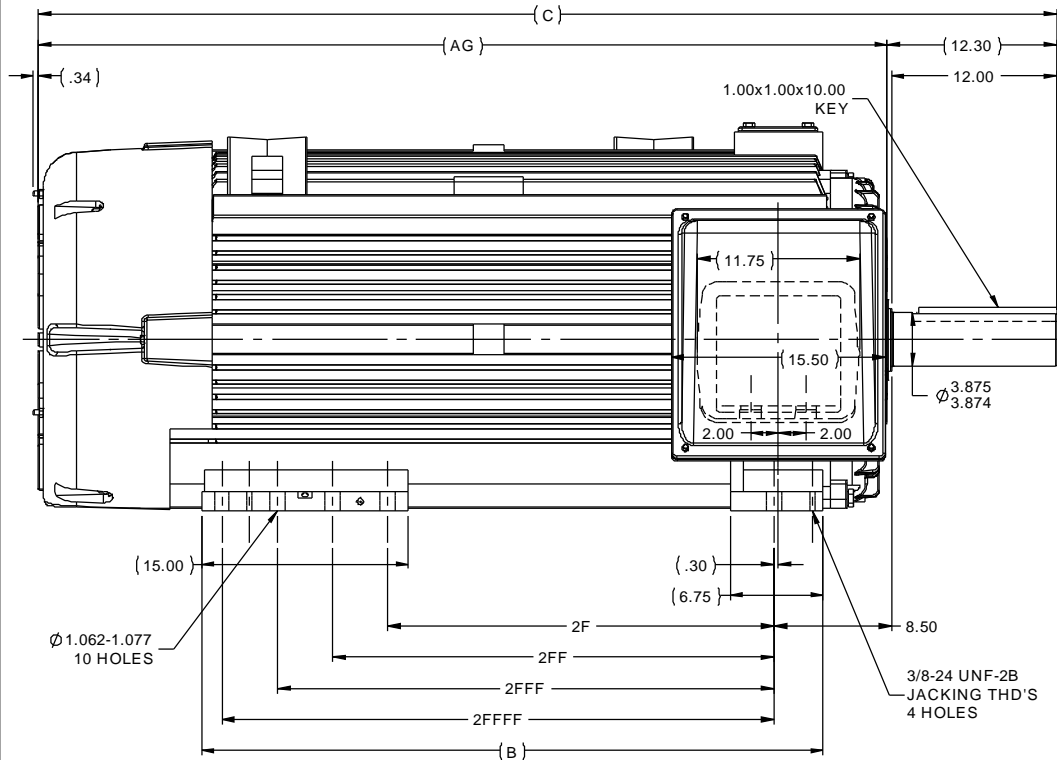
### Nameplate Specifications

Output HP	<b>600 Hp</b>	Output KW	<b>450.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>2300/4000 V</b>
Current	<b>136.0/78.0 A</b>	Speed	<b>1788 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>96.5 %</b>	Power Factor	<b>85</b>
Duty	<b>Continuous</b>	Insulation Class	<b>H</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Frame	<b>5011LX</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6324</b>	Opp Drive End Bearing Size	<b>6318</b>
UL	<b>No</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>55</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.092 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>LX</b>	Overall Length	<b>73.80 in</b>
Frame Length	<b>49.50 in</b>	Shaft Diameter	<b>3.875 in</b>
Shaft Extension	<b>12.3 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Connection Drawing	<b>A-EE7304AC</b>	Outline Drawing	<b>B-SS518707-4950</b>

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NOTES:

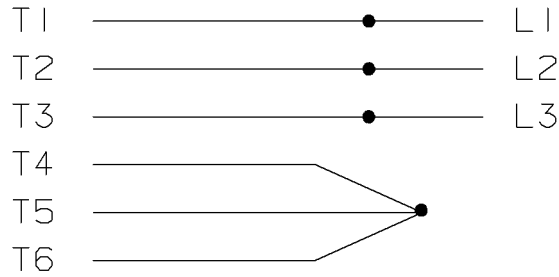
1. MAIN CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. AUX. CONDUIT BOX CAN BE ROTATED 180°.
3. NAMEPLATES TO BE READ FROM MAIN CONDUIT BOX SIDE OF MOTOR.
4. MOTOR WEIGHT (MAXIMUM) = 5,500 LBS.

(B-SS518452)

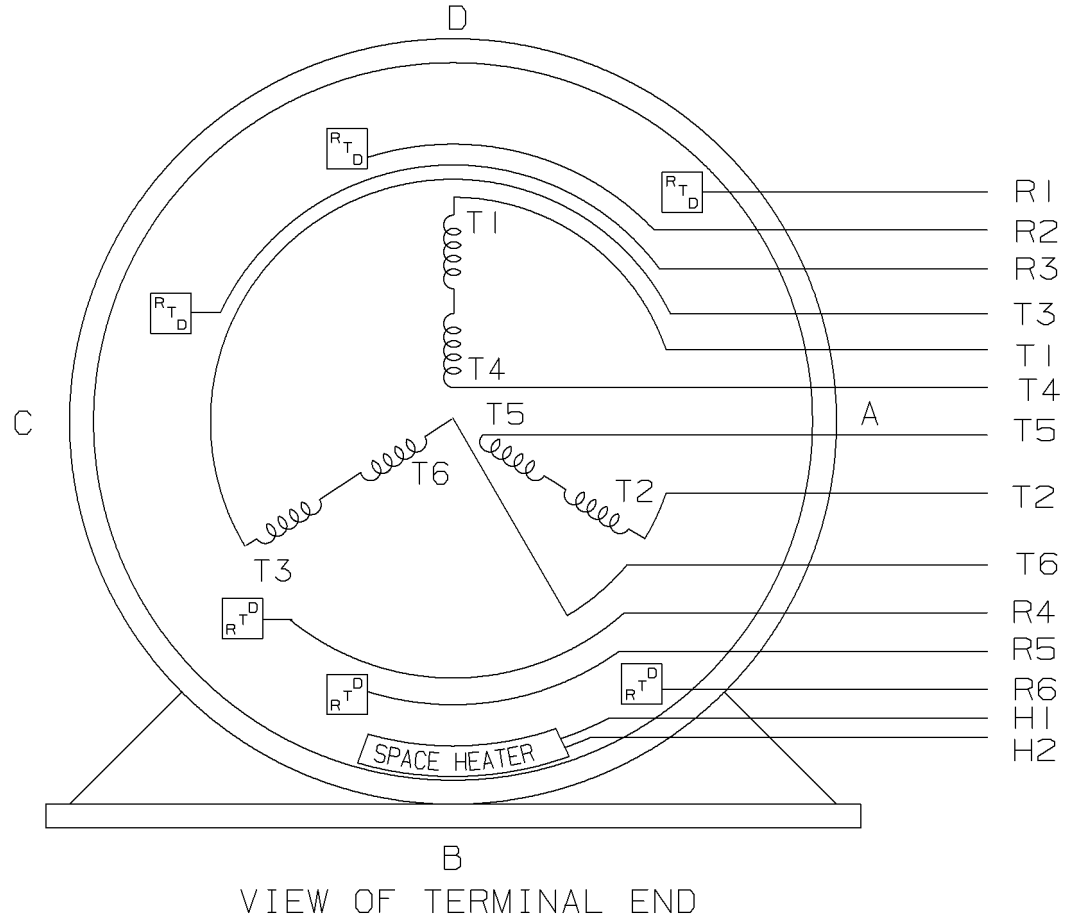
DASH	FRAME	B	C	AG	2F	2FF	2FFF	2FFFF
4950	5009LX	45.05	73.80	61.51	28.00			
4950	5010LX	45.05	73.80	61.51		32.00		
4950	5011LX	45.05	73.80	61.51			36.00	
4950	5012LX	45.05	73.80	61.51				40.00

4 REDRAWN IN SOLIDWORKS - FIXED BS DIM PER ECO-0036077		JHA 08-30-2013	DJK	DEC	INCHES		DRAWN HLB 09-07-2001
3 ADDED .50" MATERIAL TO C'BOX MTG. AREA, 48.08 WAS			X		±.1		CHK ML 09-19-2001
47.58, 27.18 WAS 26.68, 20.75 WAS 20.25 CN 37629		MSG 02-26-2004	ML	XX	±.03	TITLE OUTLINE - TEFC - F1/F2/F3 MOUNT	SCALE 1:9
2 ADDED MISSING FOOT DIMENSIONS CN 34303		HLB 11-06-2001		XXX	±.005	5009-12LX FR. - CAST CONDUIT BOX	REF
1 NEW DRAWING - DEV ENG CN 4303		HLB 09-19-2001		XXXX	±.0005	MATL	FMF
NO REVISION		BY & DATE	CHK	LANG	±7'30"	FINISH	PAGE OF
THIRD ANGLE PROJECTION			RFP			PREV	SIZE DRAWING NO
							<b>B</b> <b>SS518707</b>
					NETWORK FILE NAME SS518707		REV <b>4</b>

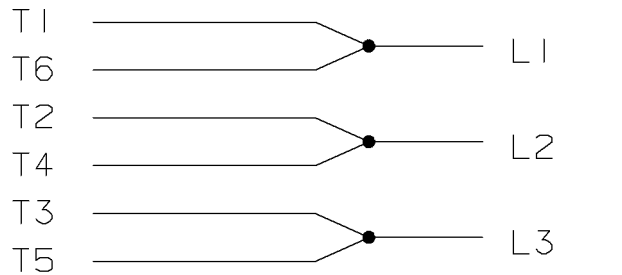
HIGH VOLTAGE  
"Y" CONNECTION



THREE PHASE - DUAL VOLTAGE  
WITH 6 RTD'S 2 PER PHASE AND SPACE HEATER



LOW VOLTAGE - DELTA



VIEW OF TERMINAL END

				<input checked="" type="checkbox"/> MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±    XXX±.005    XXXX±.0005    ANGLES±		
				MATL SPEC			DRAWN BY CAE    05-07-1999 CHKD BY
				FINISH	MARATHON ELECTRIC WAUSAU, WISCONSIN 54401		APPD BY
I		NEW DRAWING	MU 25017	CAE	PART NAME CONNECTION DIAGRAM - THREE PHASE DUAL VOLTAGE 6 RTD'S & SPACE HEATER		DRWG NO A- EE7304AC
REV	DATE	CHANGE		NAME			

SHOP BOOK

PURCHASED

DISTRIBUTION - WA - LB - WP - LM

CADD FILE NO.

EE7304AC

```
ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--
```

```
STACK:
```

```
-dictionary-  
-dictionary-  
/Pscript_WinNT_Compat  
-dictionary-
```

**CERTIFICATION DATA SHEET**

**Model#:** 5011LXVFS6547 BF      **WINDING#:** V511457 NONE 0  
**CONN. DIAGRAM:** A-EE7304AC      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS518707-4950

**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	POLYREX EM	LX	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON
6324	6318						

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  
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T  
E  
S  
\*

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

5011LXVFS6547

Customer: \_\_\_\_\_



Attention: \_\_\_\_\_

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 4000 V

Motor Load Data

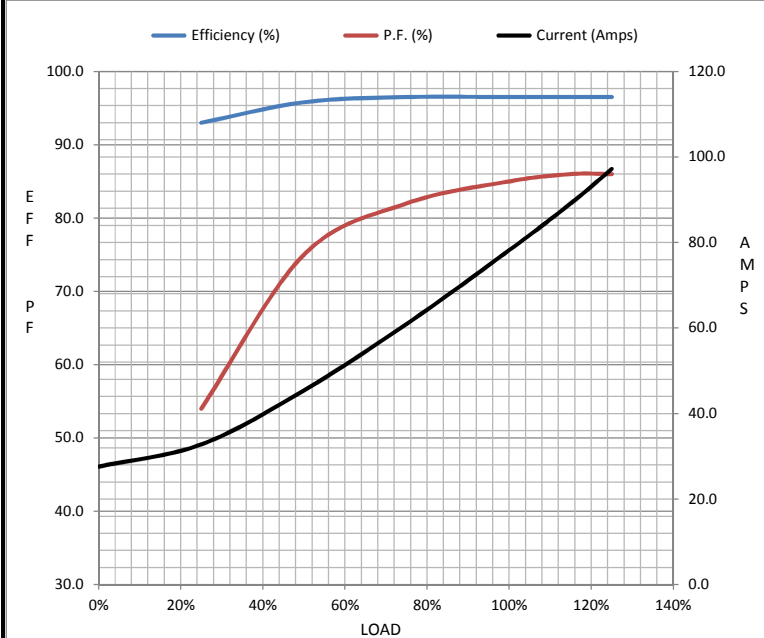
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	27.6	32.8	45.4	61.0	78.2	89.1	97.2	518	
Torque (ft-lb)	0.00	438	878	1,320	1,765	2,030	2,210	2,300	
RPM	1800	1796	1794	1790	1788	1,785	1782	0	
Efficiency (%)		93.0	95.8	96.5	96.5	96.5	96.5		
P.F. (%)	4.0	54.0	75.0	82.0	85.0	86.0	86.0	20.0	

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

Information Block

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 wk <sup>2</sup>	275 Lb-Ft <sup>2</sup>			
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

