

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 090LT17FH6327

Catalog No: R419A

2 HP General Purpose, 3 phase, 1800 RPM, 575 V, 90S Frame, TEFC
Aluminium TEFC Motors



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REGAL

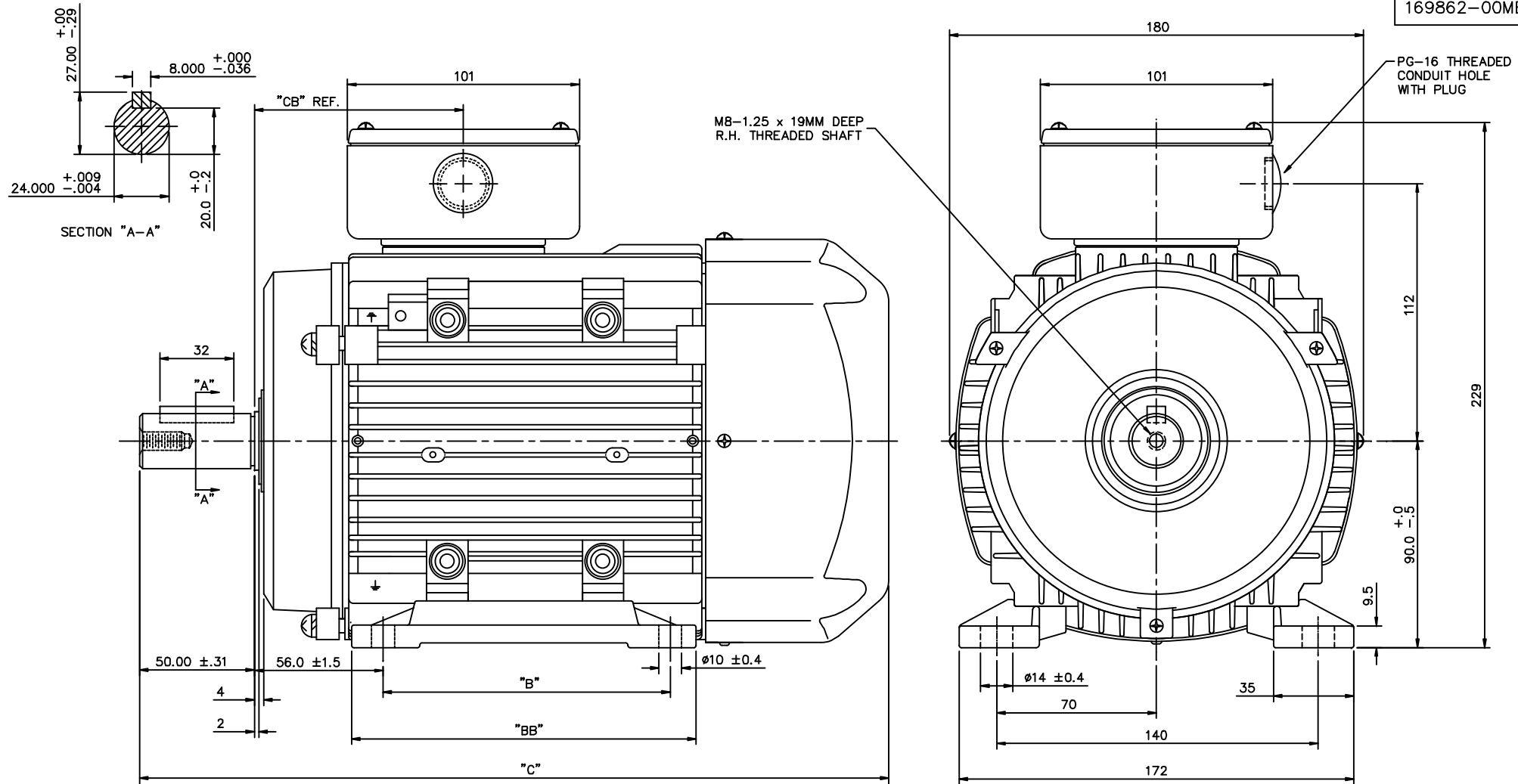
Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	575 V
Current	2.3 A	Speed	1745 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	55

Technical Specifications

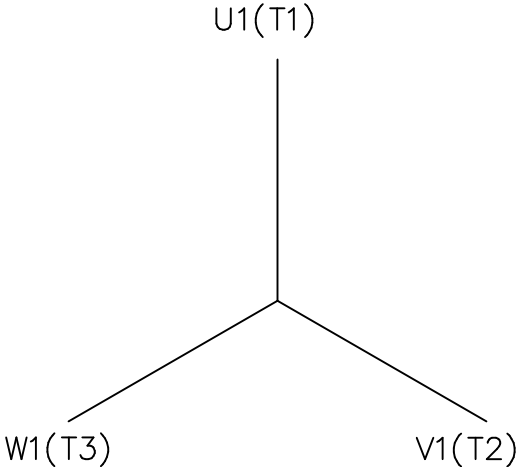
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	IEC	Overall Length	13.42 in
Frame Length	7.08 in	Shaft Diameter	1.000 in
Shaft Extension	1.96 in	Assembly/Box Mounting	F3
Outline Drawing	16986200ME	Connection Drawing	00546801ME

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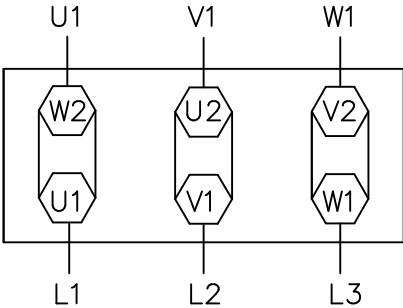


FRAME DESIGN	"B"	"BB"	"CB"	"C"
90L	125 ± 0.7	150	91	341
90S	100 ± 0.7	125	79	326

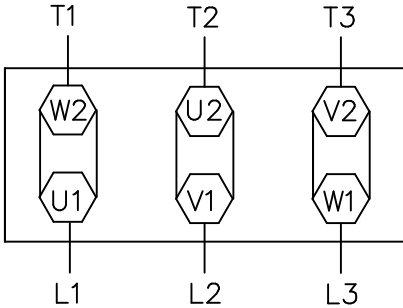
		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN ADS 01/24/02	
DEC.	METRIC	.X	± 2.5		CHK	
.XX	$\pm .76$			TITLE METRIC OUTLINE, IMB3 IEC-90 FRAME	APPD	SCALE 1=1.6
.XXX	$\pm .127$				REF	OSVC-300-561
.XXXX	$\pm .0127$				FMF	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT			RFP	CAD FILE	16986200ME	SIZE B
			DIST			DRAWING NO. 169862-00ME
						REV.




IEC MARKINGS



NEMA MARKINGS



TO REVERSE ROTATION
INTERCHANGE ANY TWO
LINE LEADS

			TOLERANCES UNLESS SPECIFIED			DRAWN JGO 3/10/04	
			DEC.	INCHES		CHK	
			.X	±.1		APPD	
			.XX	±.01		SCALE 3=4	
			.XXX	±.005		REF	
			.XXXX	±.0005	MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV
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			DIST				REV.

CERTIFICATION DATA SHEET

Model#: 90LT17FH6327 A **WINDING#:** QT9047 FR 4
CONN. DIAGRAM: 00546801ME **ASSEMBLY:** F3
OUTLINE: 16986200ME

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	1800	1745	90S	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	2.3	LINE OR INVERTER	CONTINUOU S	F5	1.15	40	3300

FULL LOAD EFF: 87.5	3/4 LOAD EFF: 88.1	1/2 LOAD EFF: 86.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78.5	3/4 LOAD PF: 70.8	1/2 LOAD PF: 66.3	0	SQ CAGE INV RATED	.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6.018 LB-FT	18.3	14.39 LB-FT 239	18.11 LB-FT 301	27

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0 LB-FT^2	- LB-FT^2	10 SEC.	-	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6205	6205	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	ALUMINUM

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED		
ENCODER: NONE NONE NONE NONE NONE PPR		
BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz		

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 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.


MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

575

Volts

 HP 2.00

 PHASE 3

 Model No 90LT17FH6327
60

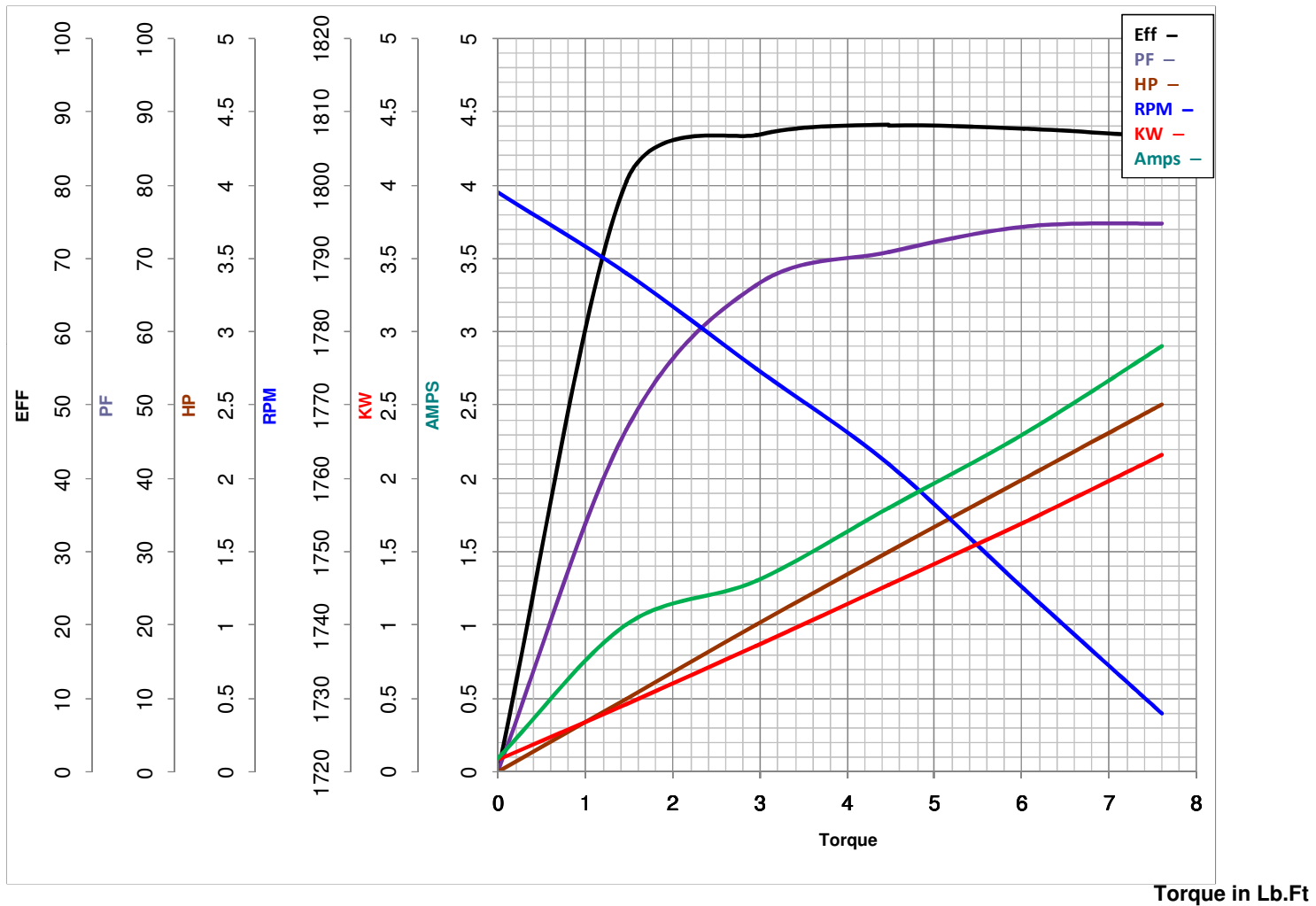
HZ

 VOLTS 575
2

HP

 Catalog No R419A

 HZ 60

 RPM 1745

 FL TORQUE 6.018 Lb.Ft

 BD TORQUE 18.1 Lb.Ft

 LR TORQUE 14.39 Lb.Ft

WINDING QT9047-

 FL AMPS 2.3

 PU TORQUE 11.3 Lb.Ft

 LR AMPS 18.3

Date