PRODUCT INFORMATION PACKET

Model No: 090LT17FH6419
Catalog No: R378A
2,1800,TEFC,90LC,3/60/230/460
TEFC



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Nameplate Specifications

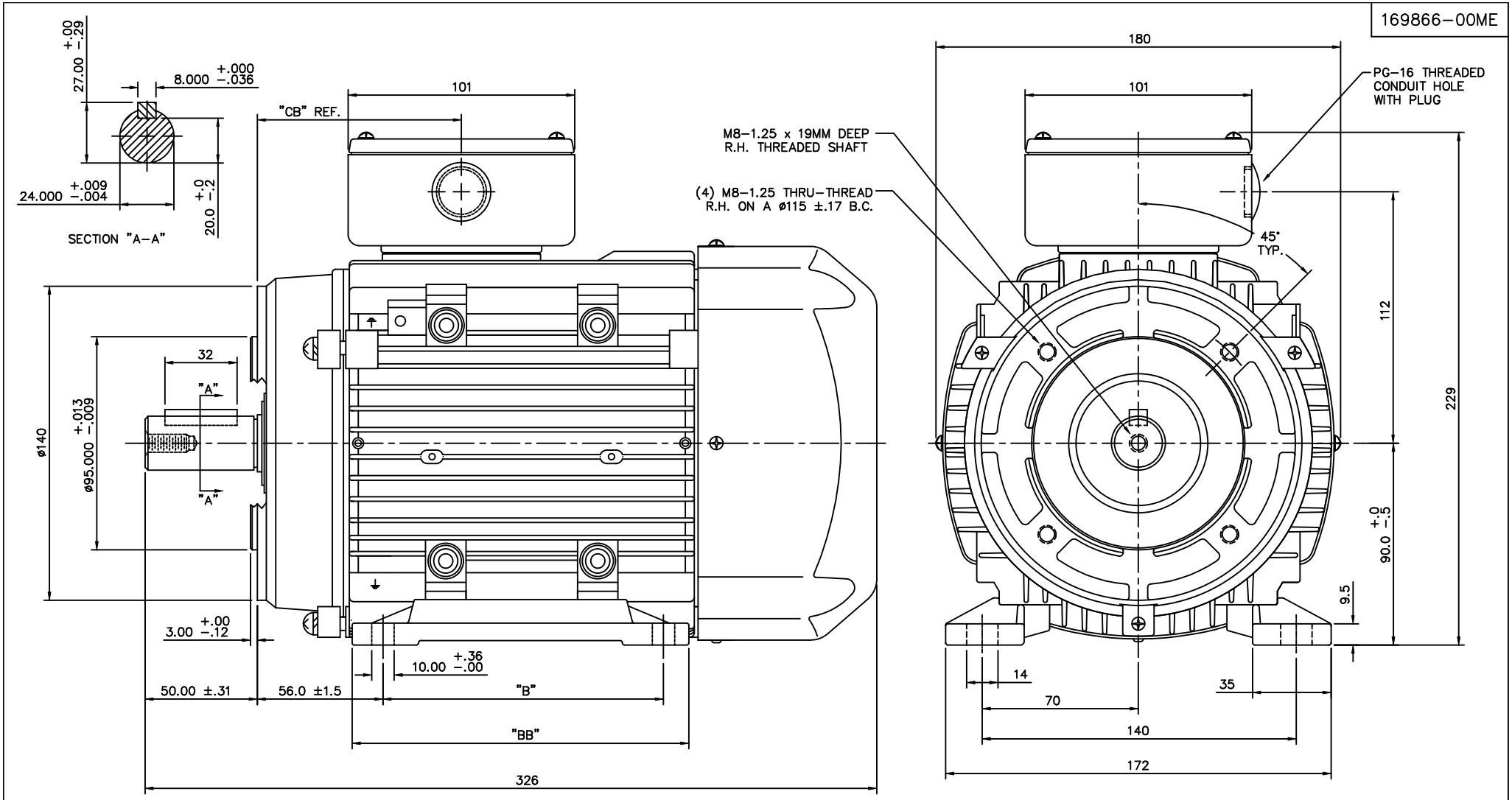
Output HP	**2 Hp**	Output KW	**1.49 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**5.4/2.7 A**	Speed	**1745 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**87.5 %**	Duty	**CONTINUOUS**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	Frame	**90L**
Enclosure	**TEFC**	Overload Protector	**NOT**
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	**SQ CAGE INV RATED**	Starting Method	**LINE OR INVERTER**
Poles	**4**	Rotation	**REV**
Mounting	**RIGID**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**ALUMINUM**	Shaft Type	**STANDARD IEC**
Overall Length	**12.83 in**	Shaft Diameter	**1 in**
Shaft Extension	**1.96 in**	Assembly/Box Mounting	**F3**
Outline Drawing	**16986600ME**	Connection Diagram	**00546501ME**

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169866-00ME



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

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	METRIC
.X	±2.5
.XX	±.76
.XXX	±.127
.XXXX	±.0127
ANG	±1/2°

MARATHON ELECTRIC

TITLE: METRIC OUTLINE, IMB34
IEC-90 FRAME RIGID W/B14 FLANGE

MAT'L. ALUMINUM

FINISH

CAD FILE 16986600ME

RFP

DIST

DRAWN	ADS 01/30/02
CHK	
APPD	
SCALE	1=1.6
REF	OSVC-300-559
FMF	LE STOCK
PREV	

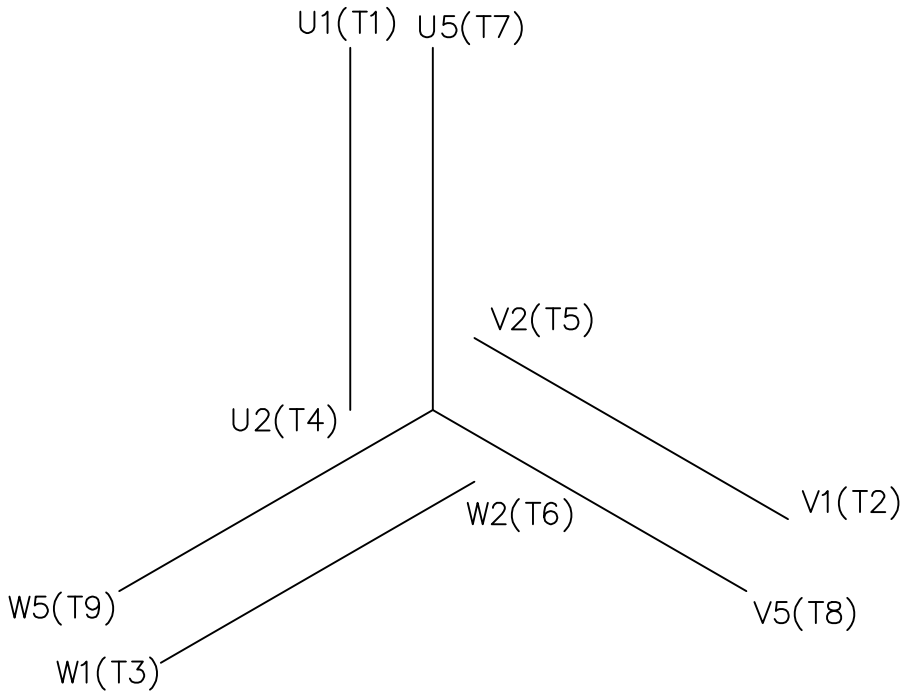
SIZE B | DRAWING NO. 169866-00ME | REV.

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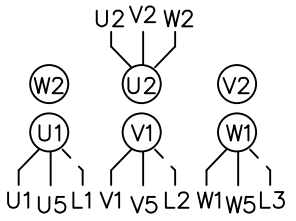
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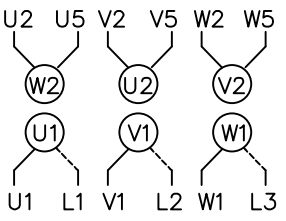
REF. DECAL (IEC) 080644
REF. DECAL (NEMA) 080446

IEC MARKINGS

LOW VOLTAGE



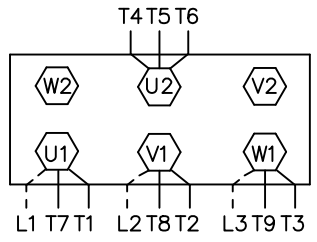
HIGH VOLTAGE



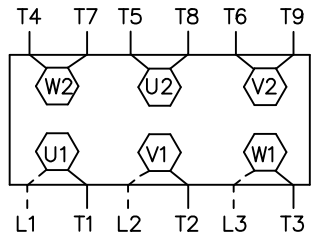
LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	U1,U5	V1,V5	W1,W5	---	U2,V2,W2	---
HIGH	U1	V1	W1	U2,U5	V2,V5	W2,W5

NEMA MARKINGS

LOW VOLTAGE



HIGH VOLTAGE



LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	T1, T7	T2, T8	T3, T9	---	T4,T5,T6	---
HIGH	T1	T2	T3	T4, T7	T5, T8	T6, T9

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

TITLE: EXTERNAL WIRING DIAGRAM
3 PHASE – DUAL VOLTAGE – W/TERM BLOCK

MAT'L. IEC/NEMA MARKINGS

FINISH

CAD FILE 00546501ME

RFP 02-17-2010

DIST

DRAWN JGO 3/10/04
CHK SB 02-17-2010
APPD MJS 02-17-2010
SCALE 1=1
REF
FMF
PREV

SIZE A

DRAWING NO. 005465ME-01

REV.

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CERTIFICATION DATA SHEET

Model#:	90LT17FH6419 A	**WINDING#:**	QT9047 FR 3
CONN. DIAGRAM:	00546501ME	**ASSEMBLY:**	F3
OUTLINE:	16986600ME		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2&2	1.49&1.49	1800	1745&1435	90L	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/400	5.4/2.7&6.4/3.2	LINE OR INVERTER	CONTINUOUS	F5	1.15/1.15	40	3300

FULL LOAD EFF: 87.5&85.5	3/4 LOAD EFF: 88.1	1/2 LOAD EFF: 86.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78.5&79.5	3/4 LOAD PF: 72.5	1/2 LOAD PF: 63.4	0	SQ CAGE INV RATED	2.6 / 1.3

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6.018 LB-FT	37.4 / 18.7	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
0 dBA	10 dBA	0 LB-FT^2	0 LB-FT^2	10 SEC.	0	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
B14	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6205	BALL 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: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/28/2017 04:12:43 AM
FORM 3531 REV.3 02/07/99
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