marathon®

Vertical Pump Motors

Model No: 184TTDR16009
Catalog No: M804B

Vertical Pump Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184HPV Frame, DP

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Product Information Packet: Model No: 184TTDR16009, Catalog No: M804B Vertical Pump Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184HPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**5 Hp**
Output KW	**3.7 kW**	Voltage	**230/460 V**
Speed	**1750 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**184HPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**89.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**12.6/6.3 A**
Power Factor	**82**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	Drive End Bearing Size	**207**
Opp Drive End Bearing Size	**205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

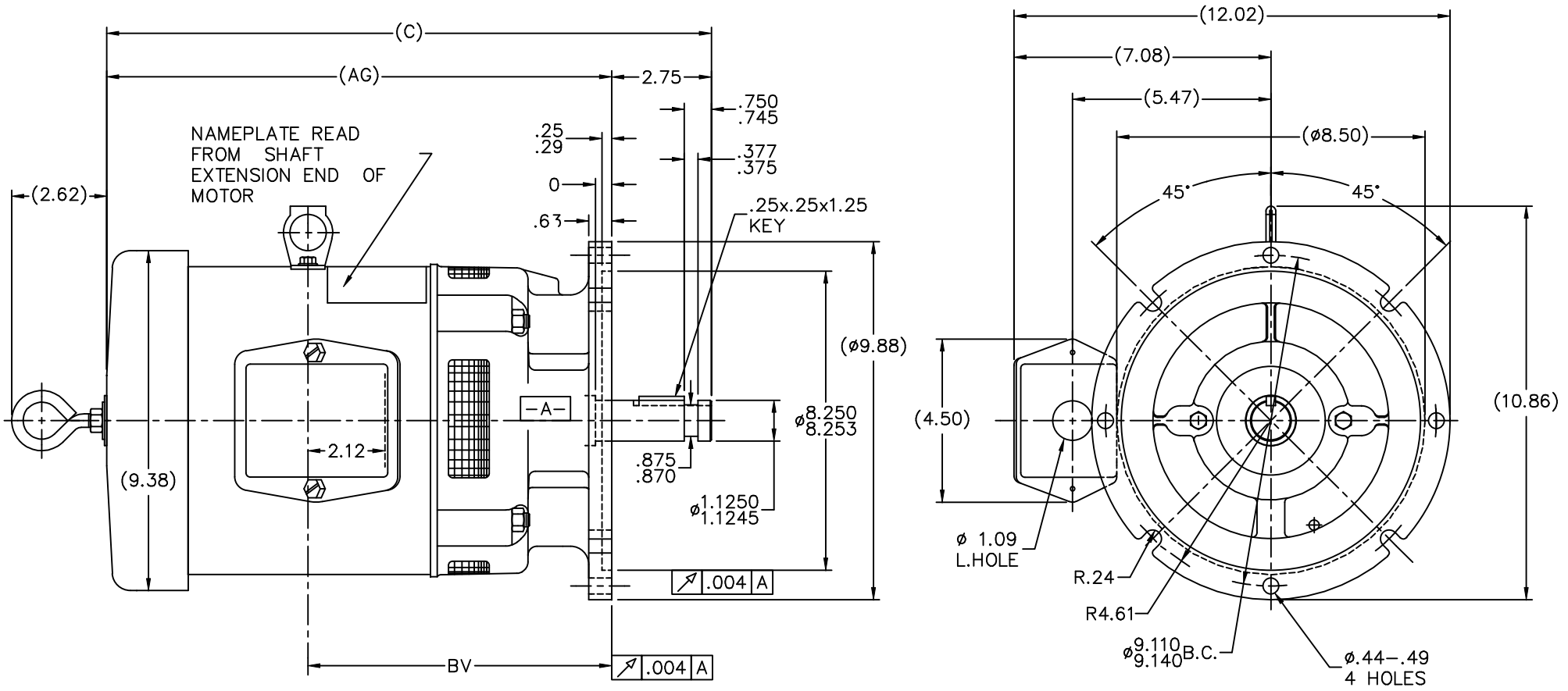
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**2.82 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**HP**	Overall Length	**18.18 in**
Frame Length	**8.25 in**	Shaft Diameter	**7/8 in**
Shaft Extension	**2.75 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**A-EE7308**	Outline Drawing	**B-SS63891-825**

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SS63891



BOX CAN BE ROTATED IN 90° STEPS.

DASH	FR.	C	AG	BV	
575	182HP	15.68	12.93	7.88	
675	182/4HP	16.68	13.93	8.38	
725	182/4HP	17.18	14.43	8.63	10-03-2001
775	182/4HP	17.68	14.93	8.88	
825	182/4HP	18.18	15.43	9.13	10-03-2001
875	182/4HP	18.68	15.93	9.38	

NO.	REVISION		BY & DATE	CHK
14	UPDATED DRAWING		RJW 04-19-2007	
13	REDRAWN IN AUTOCAD		TAT 07-22-2004	ML
12	UPDATED REAR BRACKET		HLB 12-05-2001	ML
11	ADDED LIFTING LUG	MU38434	DAH 08-20-2001	
10	REV. -675, -775, -875 FR.	CN 27400-320	CAE 10-13-1999	
9	REVISED EYEBOLT LOCATION	MU25204	CAE 06-02-1999	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

DRAWN LZ 07-05-1994
CHK ML 07-06-1994
APPD GK 07-06-1994
SCALE 3=8
REF
FMF
PREV

TITLE OUTLINE
180HP FR. - BB - TS - DR.PR. - 'P' BASE
MAT'L.
FINISH
CAD FILE ss63891

SIZE	DRAWING NO.	PAGE OF	REV.
B	SS63891		14

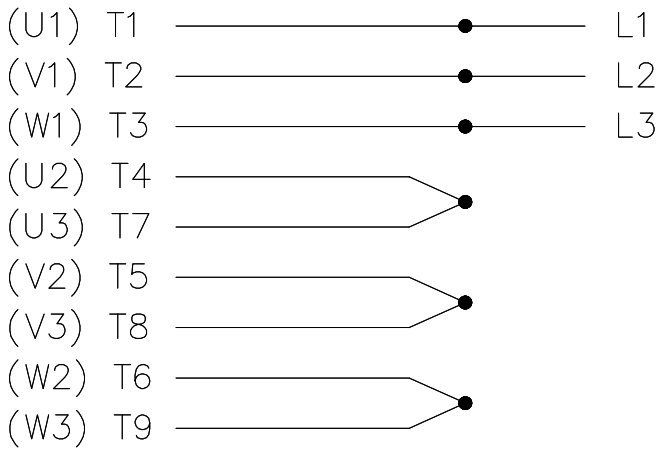
RFP
DIST LB

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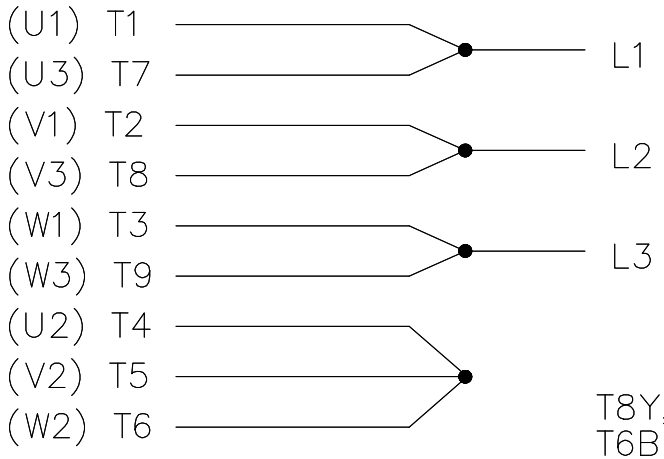
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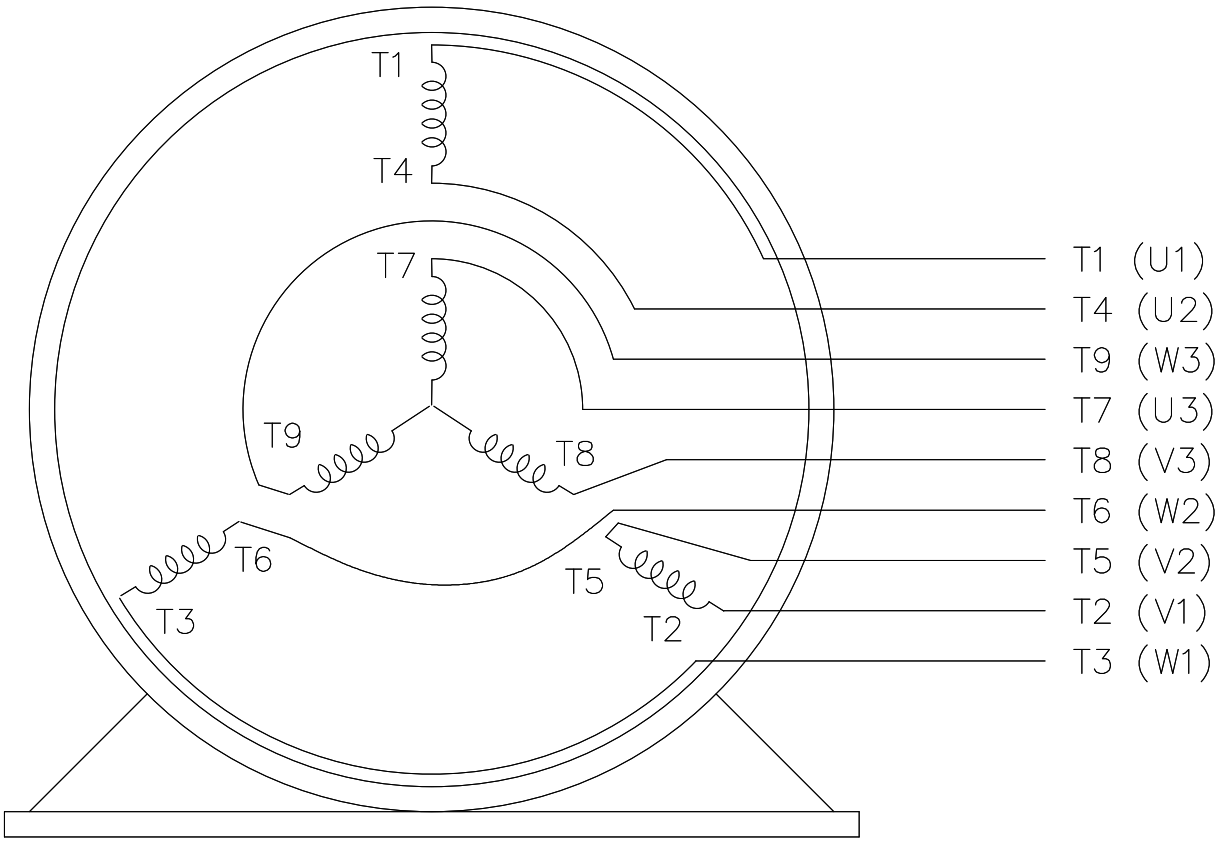
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE





VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION: J	REVISION BY: SB	REV DATE/ © DATE: 08/01/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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DATE: 11/20/1990	
APPROVED BY: SAS	
DATE: 04/24/2003	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 5 EE7308	1 OF 1

Uncontrolled Copy

Data Sheet

Date: 12/14/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

184TTDR16009

Submittal

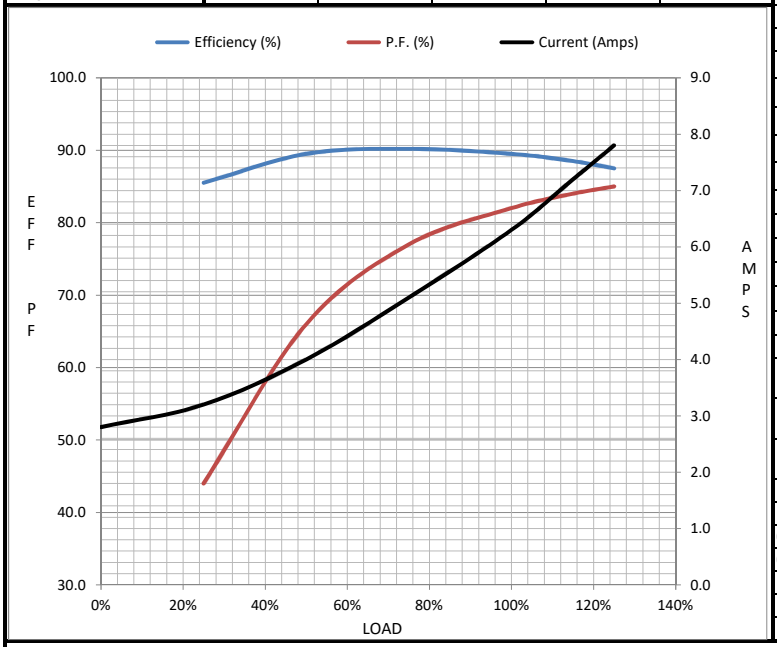
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.80	3.2	4.0	5.1	6.3	7.2	7.8	46.0	
Torque (ft-lb)	0.00	3.7	7.4	11.2	15.0	17.5	19.0	31.5	
RPM	1800	1790	1775	1765	1750	1,745	1735	0	
Efficiency (%)		85.5	89.5	90.2	89.5	88.5	87.5		
P.F. (%)	6.5	44.0	66.0	77.0	82.0	84.0	85.0	50.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1500	1750	1800
Current (Amps)	46.0	43.0	26.0	6.3	2.80
Torque (ft-lb)	31.5	30.0	50.0	15.0	0.00



Information Block		
HP	5.0	
Sync. RPM	1800	
Frame	184	
Enclosure	DP	
Construction	TDR	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	50	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.45	Lb-Ft²
Ref Wdg	K1844214 NONE	
Sound Pressure @ 1M	63	dBA
VFD Rating	NONE	
Outline Dwg	B-SS63891-825	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.5450	1.1020	3.6750	5.1290	93.7200

