marathon®

Vertical Pump Motors

Model No: 505UTDS16076
Catalog No: M759

Vertical Pump Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 505 PV Frame, DP

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Product Information Packet: Model No: 505UTDS16076, Catalog No: M759 Vertical Pump Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 505 PV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**200 Hp**
Output KW	**149.0 kW**	Voltage	**460 V**
Speed	**1188 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**505 PV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**95.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**240.0 A**
Power Factor	**81**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6316**
Opp Drive End Bearing Size	**7319**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

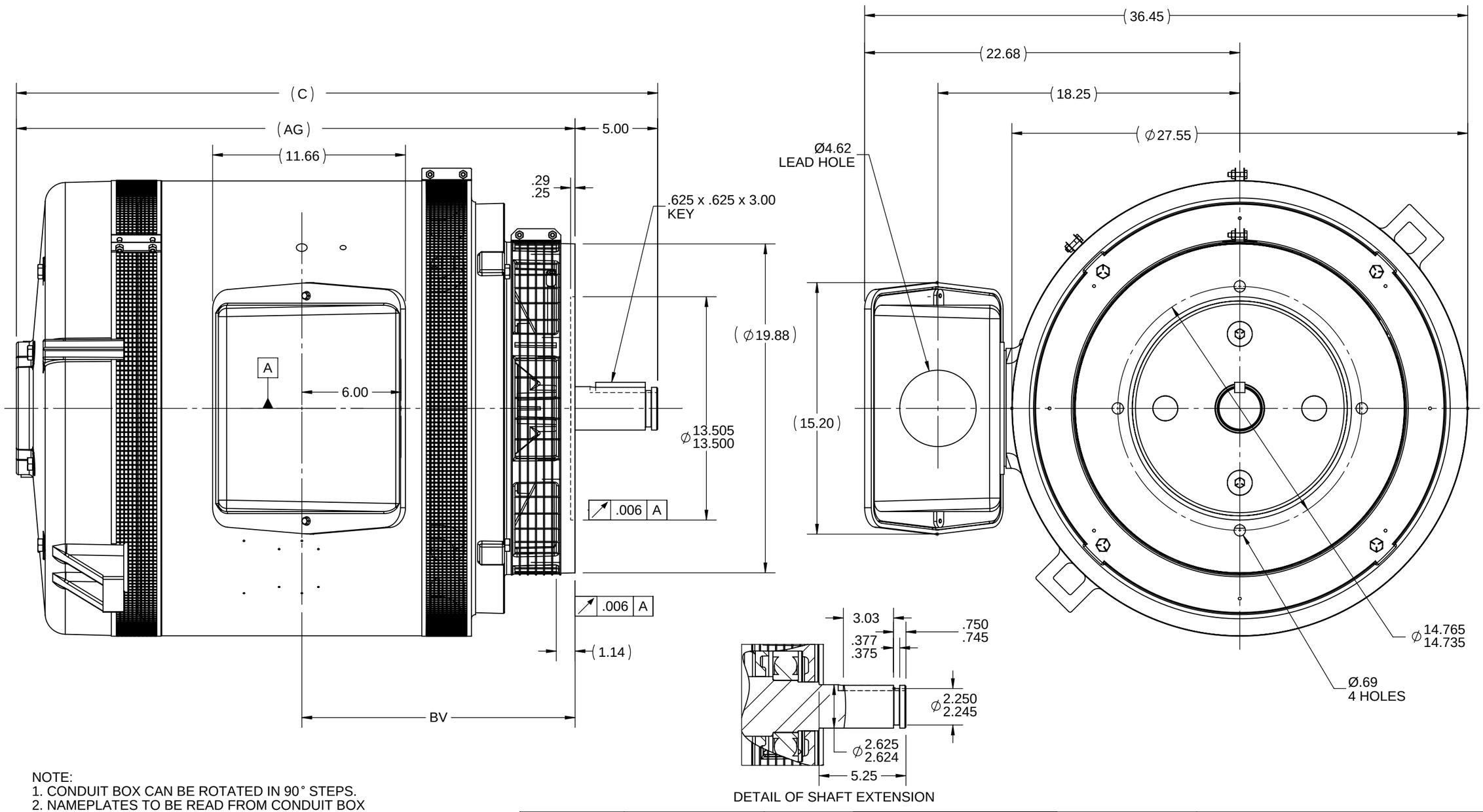
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.024 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Duplex Tandem Angular Contact**	Frame Material	**Cast Iron**
Shaft Type	**P**	Overall Length	**38.76 in**
Frame Length	**21.0 in**	Shaft Diameter	**2 5/8 in**
Shaft Extension	**5.00 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7300U**	Outline Drawing	**SS510025-2100**

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DETAIL OF SHAFT EXTENSION

NOTE:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF THE MOTOR.

DASH	FRAME	C	AG	BV
2100	505P	38.77	33.77	16.52
2800	508P	45.77	40.77	20.02

DRAWING REVISION	REVISION BY	REV DATE/© DATE
L	SB	08/18/2026
REQUEST NUMBER	APPROVED BY	DATE
NMR-0240619	PD	08/18/2026

REQUEST NUMBER DESCRIPTION
MISSING DIA. ADDED FOR AK DIM

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	SMC
DATE	08-01-1991
APPROVED BY	GK
DATE	08-01-1991
REFERENCE	

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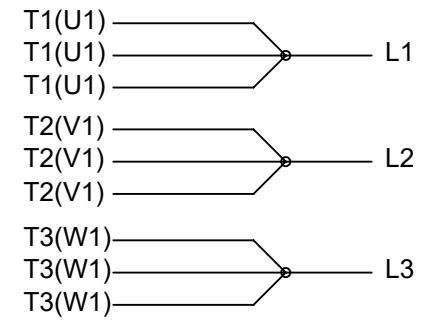
DESCRIPTION
OUTLINE
500P FR. - BB - TS - DR. PR. - P'BASE - SCREENS

MATERIAL | PROCESS/FINISH

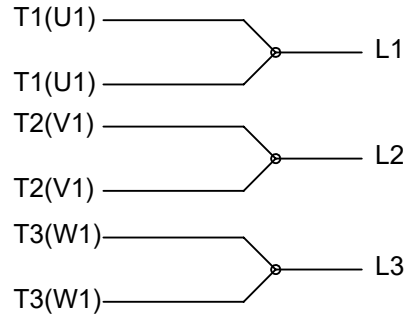
THIRD ANGLE PROJECTION

SIZE	DRAWING NUMBER	SHEET
B	SS510025	1 OF 1

IF MOTOR HAS 9 LEADS

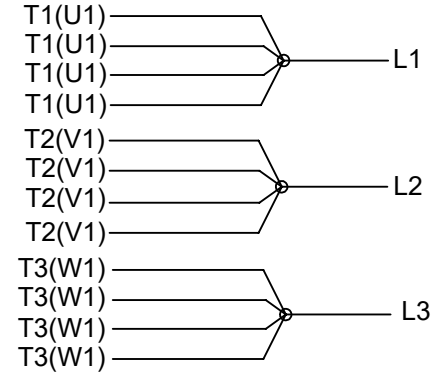


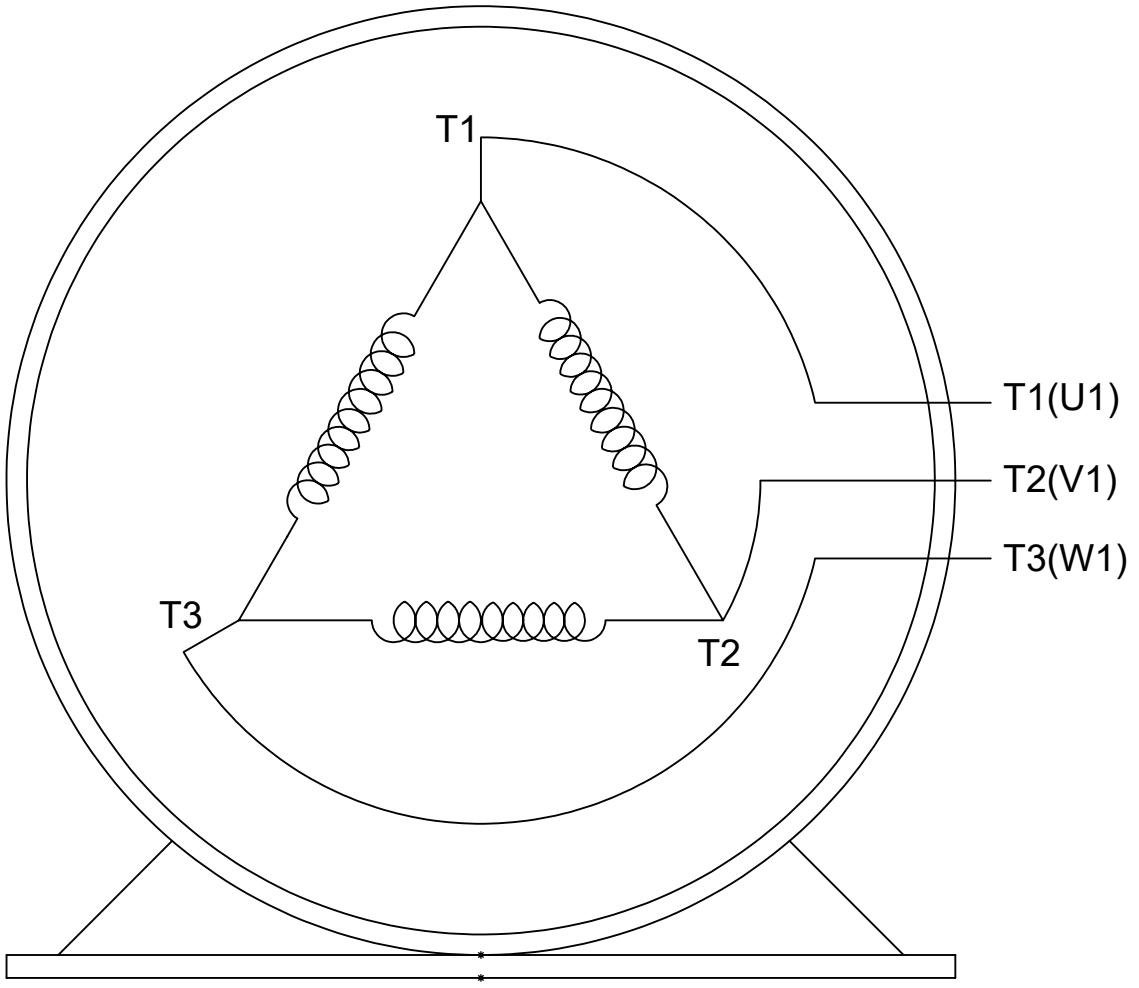
IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS





VIEW OF TERMINAL END

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

REQUEST NUMBER DESCRIPTION
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PRIMARY DIMENSIONS ARE INCH
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DRAWN BY	DRS
DATE	09-27-1996
APPROVED BY	GK
DATE	09-30-1996
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø SINGLE VOLTAGE

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300U	1 OF 1

Uncontrolled Copy

Data Sheet

Date: 11/30/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

505UTDS16076

Submittal

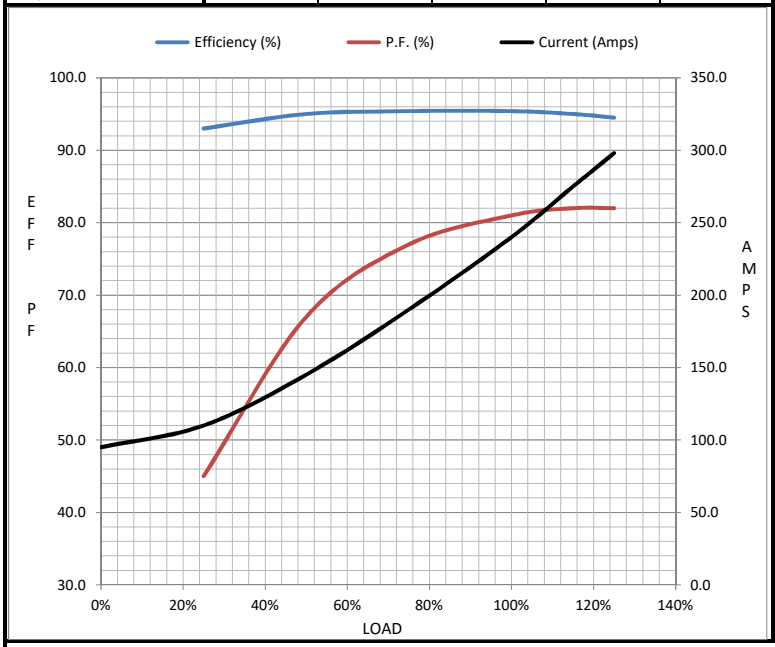
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	95.0	110	145	190	240	275	298	1,450	
Torque (ft-lb)	0.00	220	440	662	885	1,020	1,110	1,700	
RPM	1200	1196	1194	1190	1188	1,186	1184	0	
Efficiency (%)		93.0	95.0	95.4	95.4	95.0	94.5		
P.F. (%)	3.0	45.0	67.0	77.0	81.0	82.0	82.0	32.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1125	1188	1200
Current (Amps)	1,450	1,250	850	240	95.0
Torque (ft-lb)	1,700	1,500	2,100	885	0.00



Information Block

HP	200.0	
Sync. RPM	1200	
Frame	505	
Enclosure	DP	
Construction	TDS	
Voltage	460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	145	Lb-Ft²
Ref Wdg	T505661 NONE	
Sound Pressure @ 1M	78	dBA
VFD Rating	NONE	
Outline Dwg	B-SS510025-2100	
Conn. Diag	A-EE7300U	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0160	0.0120	0.1090	0.1720	2.7230

Speed -Torque Curve

