marathon®

Vertical Pump Motors

Model No: 364TTDS16105
Catalog No: M728

Vertical Pump Motor, 30 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 364HPV Frame, DP

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Product Information Packet: Model No: 364TTDS16105, Catalog No: M728 Vertical Pump Motor, 30 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 364HPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**30 Hp**
Output KW	**22.4 kW**	Voltage	**230/460 V**
Speed	**880 r/min**	Synchronous RPM	**900 r/min**
Service Factor	**1.15**	Frame	**364HPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**91.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**82.0/41.0 A**
Power Factor	**75**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**7312 2**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

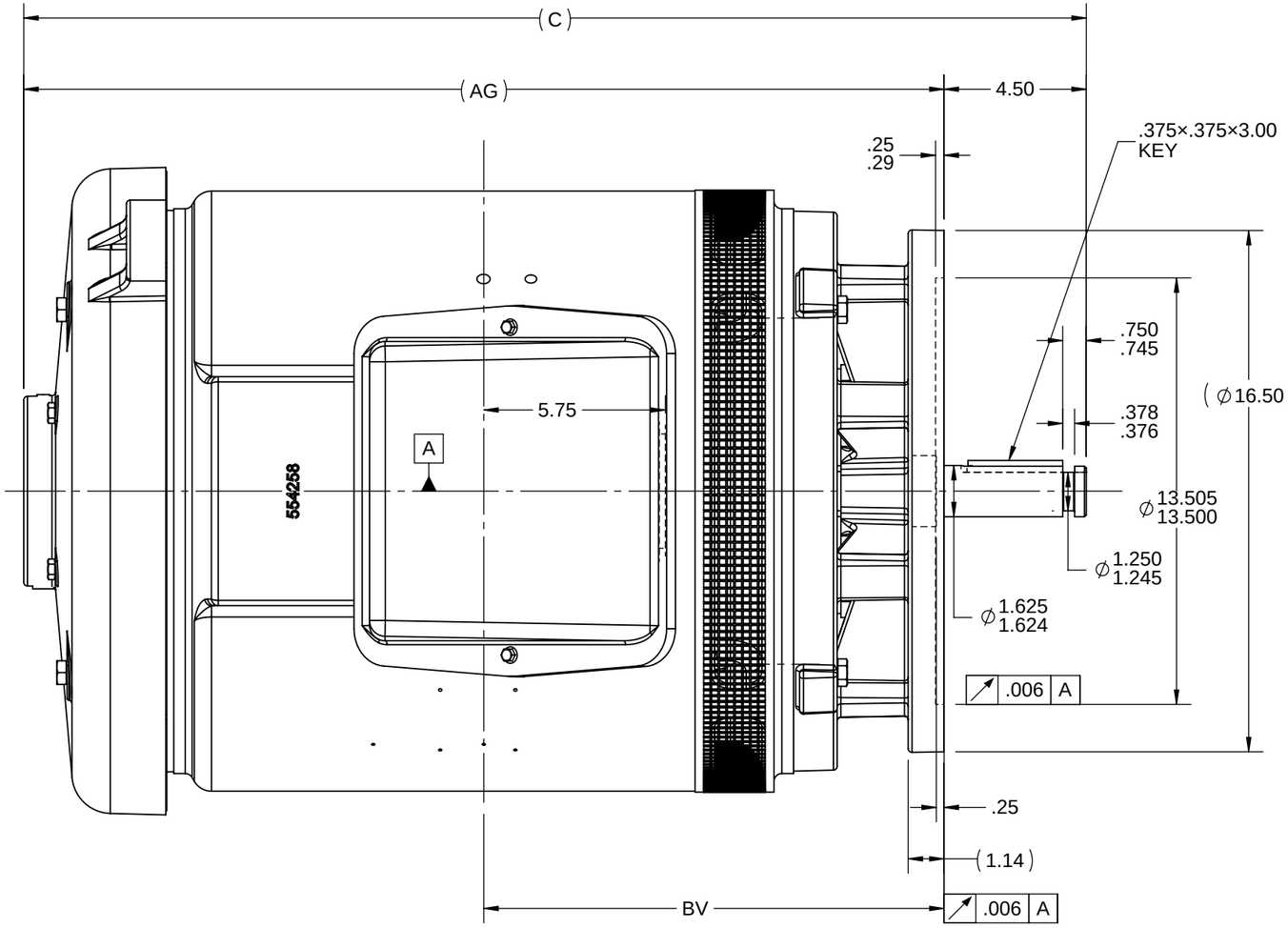
Technical Specifications

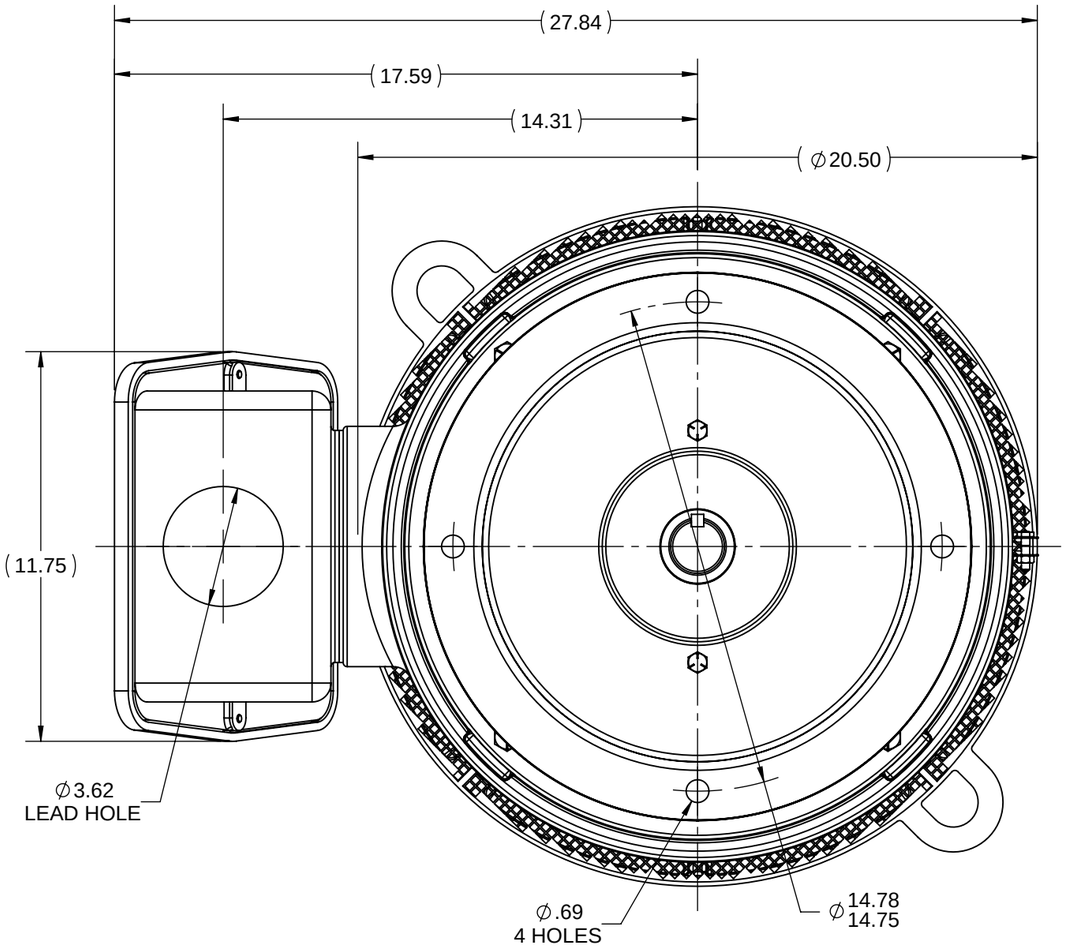
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**8**	Rotation	**Reversible**
Resistance Main	**.255 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**HP**	Overall Length	**33.65 in**
Frame Length	**19.62 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**4.50 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**A-EE7308**	Outline Drawing	**B-SS554645-1962**

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NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM SHAFT EXTENSION END OF MOTOR.

DASH	FRAME	C	AG	BV
1962	360HP	33.65	29.15	14.58

DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SV	05/27/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026396	RMS	05/27/2026

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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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/ 5.1/
INCH / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	TJW
DATE	10-04-2011
APPROVED BY	LMC
DATE	10-05-2011
REFERENCE	SS503458
THIRD ANGLE PROJECTION	

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DESCRIPTION
OUTLINE
360HP FR. - DR.PR. - P'BASE

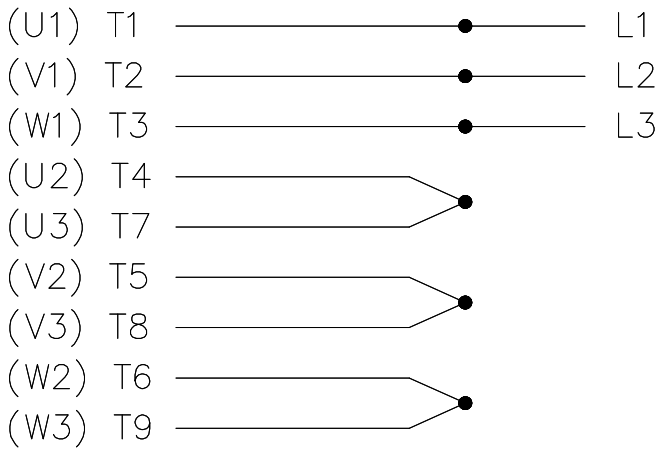
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS554645	1 OF 1

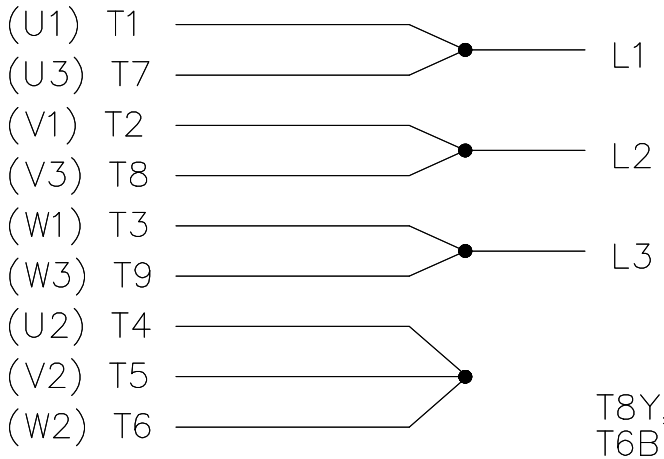
Uncontrolled Copy

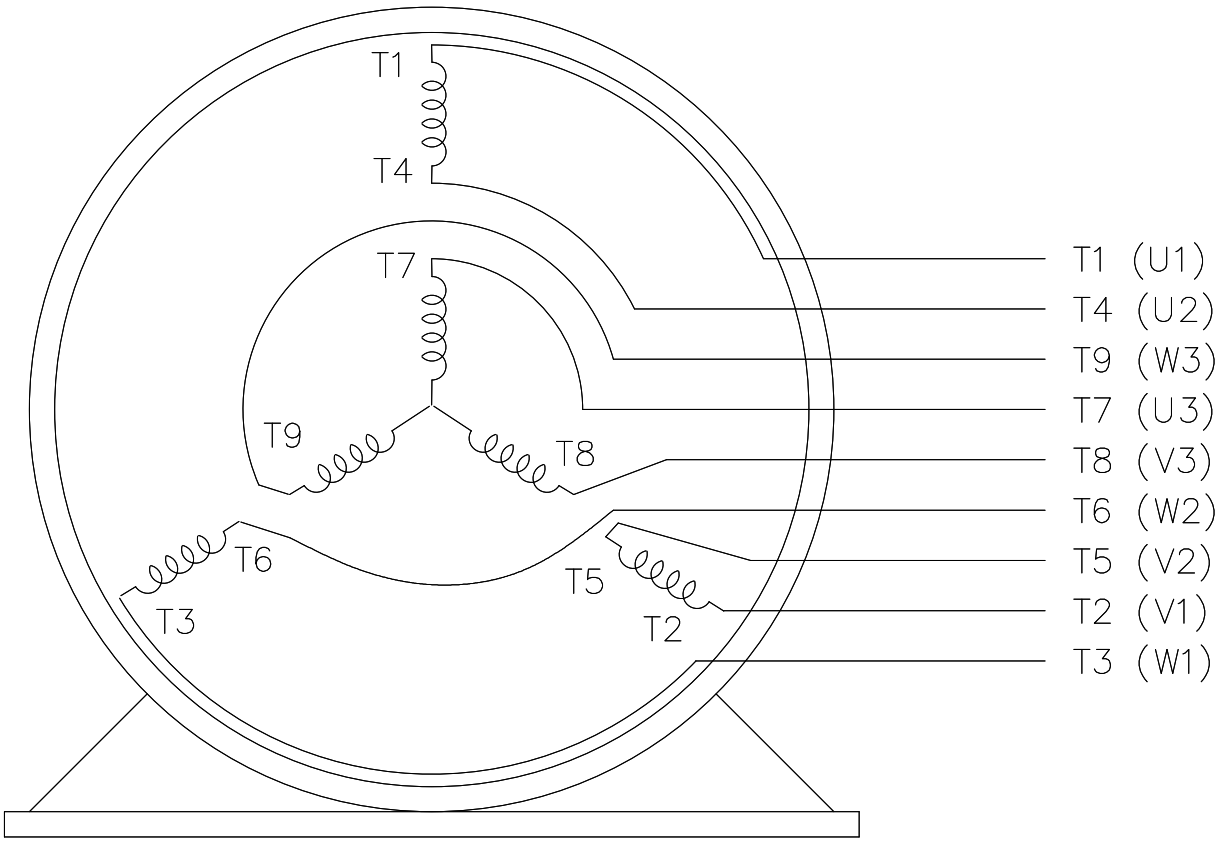
THREE PHASE
DUAL VOLTAGE MOTOR

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
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

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

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

marathon® electric

364TTDS16105

Submittal

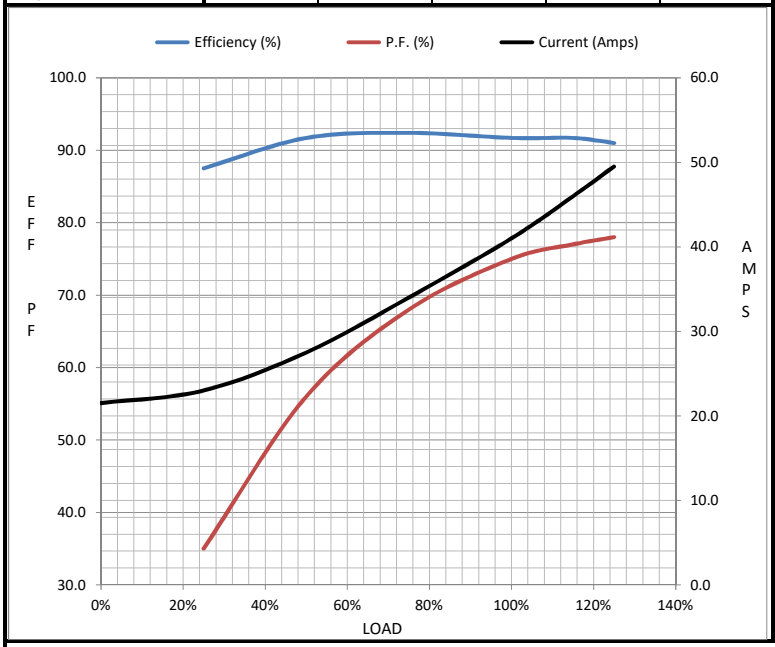
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	21.5	23.0	27.5	34.0	41.0	46.0	49.5	217	
Torque (ft-lb)	0.00	44.0	88.5	134	179	207	226	300	
RPM	900	895	890	885	880	875	872	0	
Efficiency (%)		87.5	91.7	92.4	91.7	91.7	91.0		
P.F. (%)	4.0	35.0	56.0	68.0	75.0	77.0	78.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	475	775	880	900
Current (Amps)	217	190	160	41.0	21.5
Torque (ft-lb)	300	225	500	179	0.00



Information Block

HP	30.0	
Sync. RPM	900	
Frame	364	
Enclosure	DP	
Construction	TDS	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	13.8	Lb-Ft²
Ref Wdg	T364837 NONE	
Sound Pressure @ 1M	66	dBA
VFD Rating	NONE	
Outline Dwg	B-SS554645-1962	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1660	0.1680	0.7950	0.8040	11.9570

Speed -Torque Curve

