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Vertical Pump Motors

Model No: 405TTFS16082
Catalog No: M918B

Vertical Pump Motor, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 405HPV Frame, TEFC

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Product Information Packet: Model No: 405TTFS16082, Catalog No: M918B Vertical Pump Motor, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 405HPV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**75 Hp**
Output KW	**56.0 kW**	Voltage	**230/460 V**
Speed	**1185 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**405HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**94.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**180.0/90.0 A**
Power Factor	**83**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**6314**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

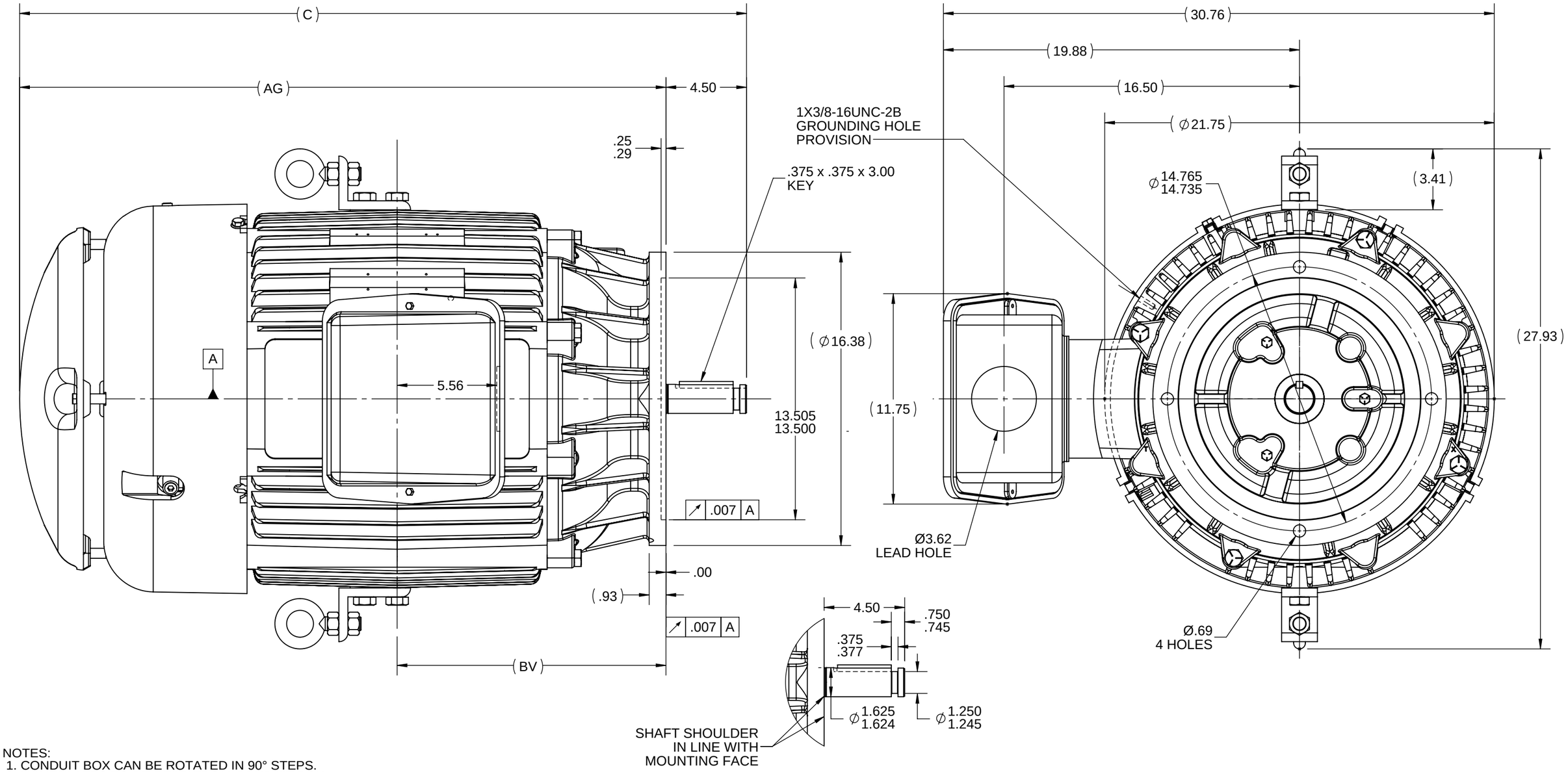
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.092 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	**40.58 in**
Frame Length	**16.75 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-SS508404-1675**

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NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
3. MAX. SHAFT RUNOUT .003
4. MAX. SHAFT ENDPLAY .015

DASH	FRAME	C	AG	BV
1675	400HPV	40.58	36.08	15.00

DRAWING REVISION	REVISION BY	REV DATE/© DATE
J	CP	08/26/2026
REQUEST NUMBER	APPROVED BY	DATE
NMR-0240744	VS	08/26/2026

REQUEST NUMBER DESCRIPTION
UPDATED DRAWING DESCRIPTION

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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	DD
DATE	04-28-1993
APPROVED BY	TB
DATE	04-30-1993
REFERENCE	

THIRD ANGLE PROJECTION

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DESCRIPTION
OUTLINE
400HPV FR. - TEFC - 'P'--BASE - SPL. EXT.

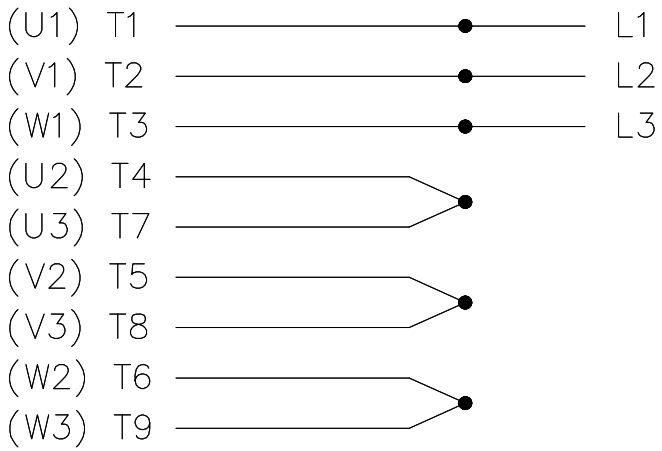
MATERIAL | PROCESS/FINISH

SIZE B | DRAWING NUMBER SS508404 | SHEET 1 OF 1

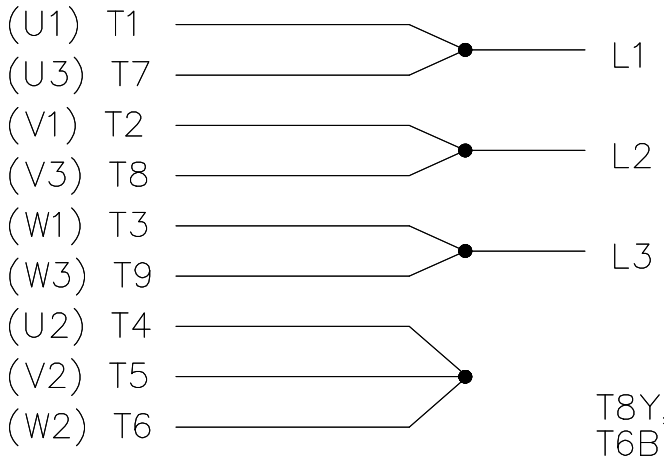
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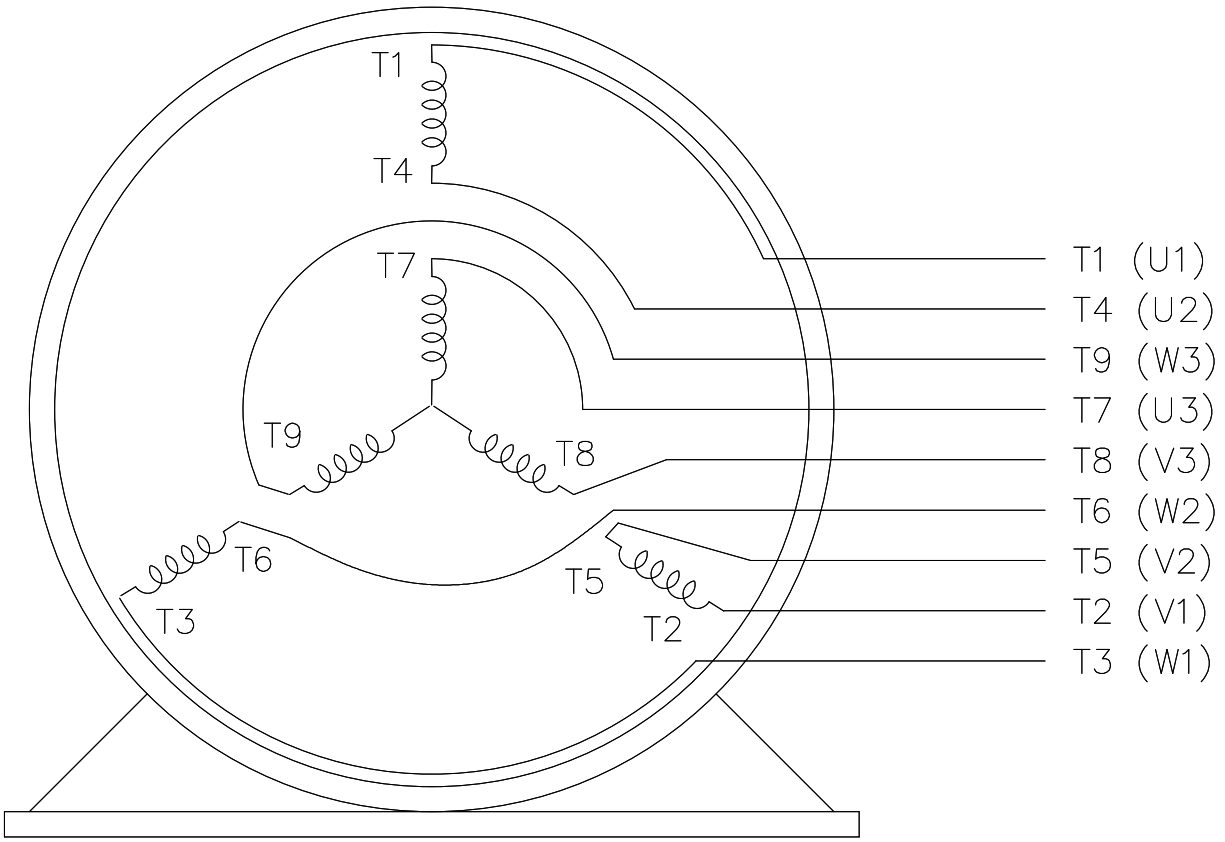
THREE PHASE
DUAL VOLTAGE MOTOR

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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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

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Data Sheet

Date: 12/3/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

405TTFS16082

Submittal

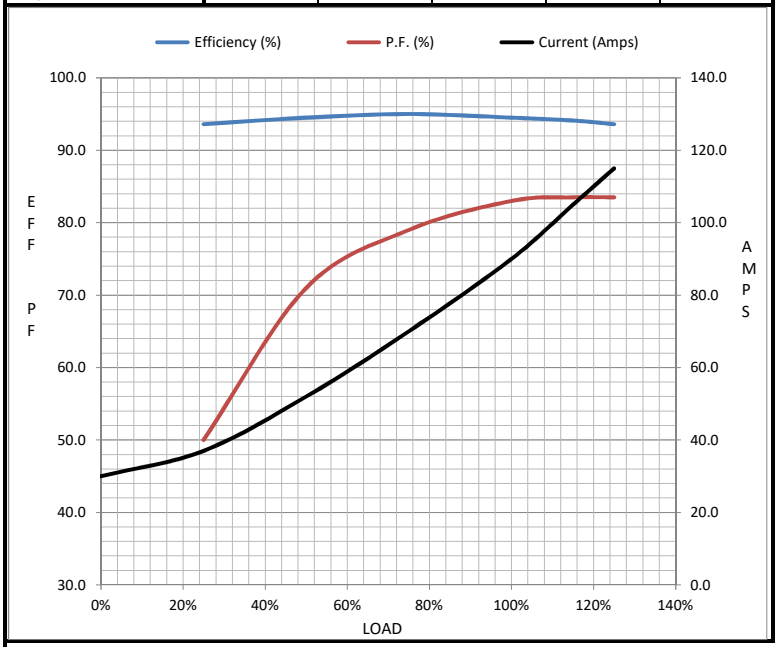
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	30.0	37.0	52.0	70.0	90.0	105	115	535	
Torque (ft-lb)	0.00	82.5	165	248	333	385	417	650	
RPM	1200	1196	1192	1188	1185	1,180	1175	0	
Efficiency (%)		93.6	94.5	95.0	94.5	94.1	93.6		
P.F. (%)	4.0	50.0	71.0	79.0	83.0	83.5	83.5	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1050	1185	1200
Current (Amps)	535	475	300	90.0	30.0
Torque (ft-lb)	650	575	750	333	0.00



Information Block

HP	75.0	
Sync. RPM	1200	
Frame	405	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	75	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	38.0	Lb-Ft²
Ref Wdg	T405642 NONE	
Sound Pressure @ 1M	68	dBA
VFD Rating	NONE	
Outline Dwg	B-SS508404-1675	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0680	0.0420	0.3250	0.5070	8.7320

Speed -Torque Curve

