Vertical Pump Motors

Model No: 445TTDN16002
Catalog No: M761

Vertical Pump Motor, 250 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 445HPV Frame, DP

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Product Information Packet: Model No: 445TTDN16002, Catalog No: M761 Vertical Pump Motor, 250 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 445HPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**250 Hp**
Output KW	**187.0 kW**	Voltage	**460 V**
Speed	**3570 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**445HPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**95.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**275.0 A**
Power Factor	**89**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**7313**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

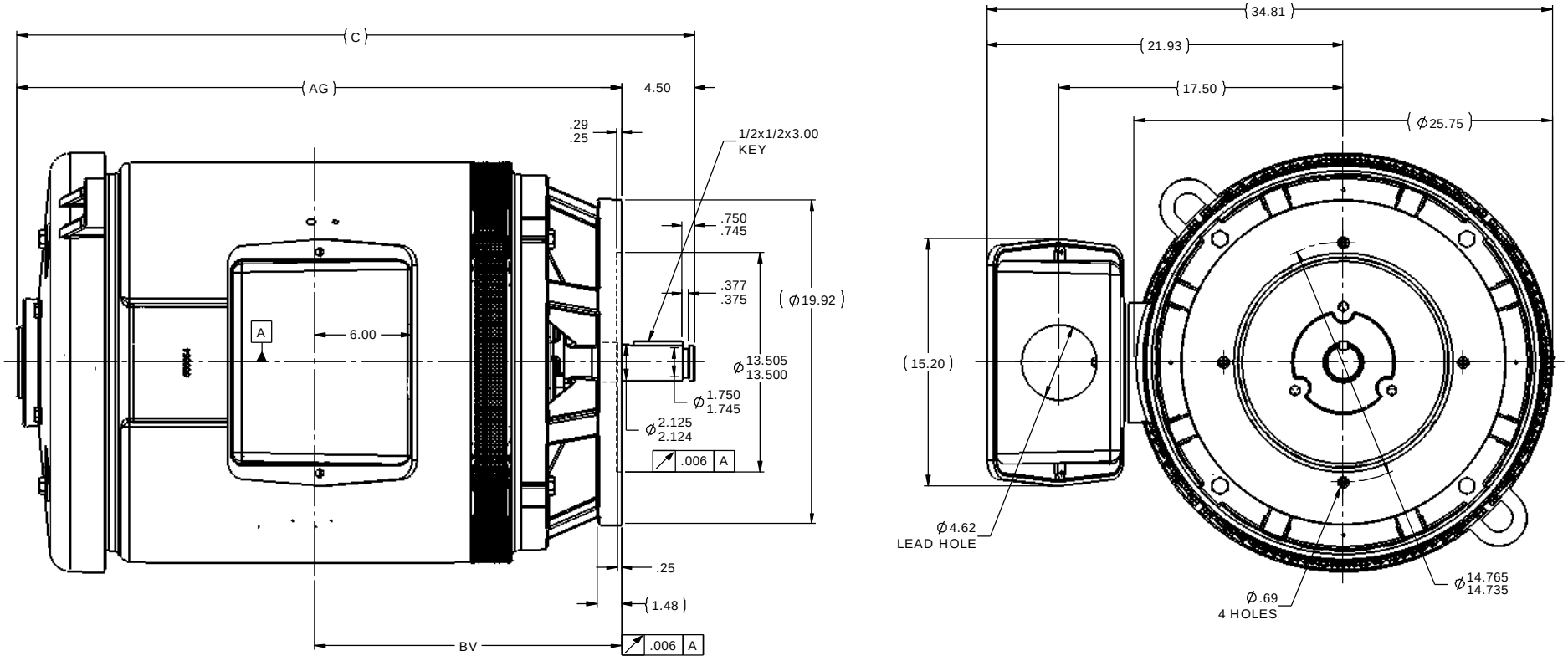
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.0215 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	**HP**	Overall Length	**41.72 in**
Shaft Diameter	**3 3/8 in**	Shaft Extension	**4.5 in**
Assembly/Box Mounting	**F1/F2 Capable**		

Drawings

Connection Drawing	**EE7300U**	Outline Drawing	**SS555828-2538**

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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	
2538	444/5PV	41.72	37.22	18.88	

NO	REVISION	BY & DATE	CHK

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

THIRD ANGLE PROJECTION

RFP 7/26/2013
NETWORK FILE NAME SS555828

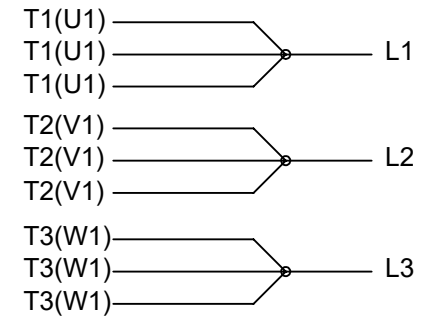
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TITLE OUTLINE - SCREENS
444/5PV FR. - DR.PR. - P'BASE
MAT'L
FINISH
PREV

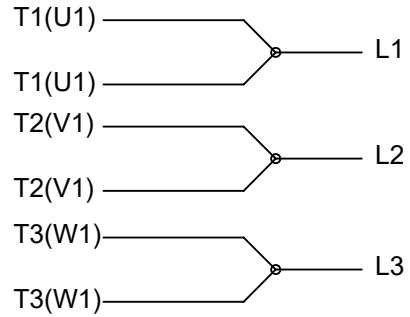
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CHK	MH 7/26/2013
APPR	DJK 7/26/2013
SCALE	5:32
REF	SS555756
FMF	MU114116
PAGE	OF

SIZE B
DRAWING NO SS555828
REV

IF MOTOR HAS 9 LEADS

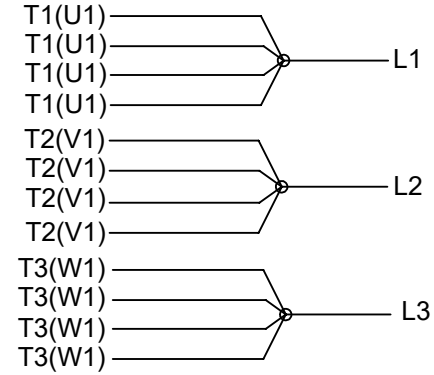


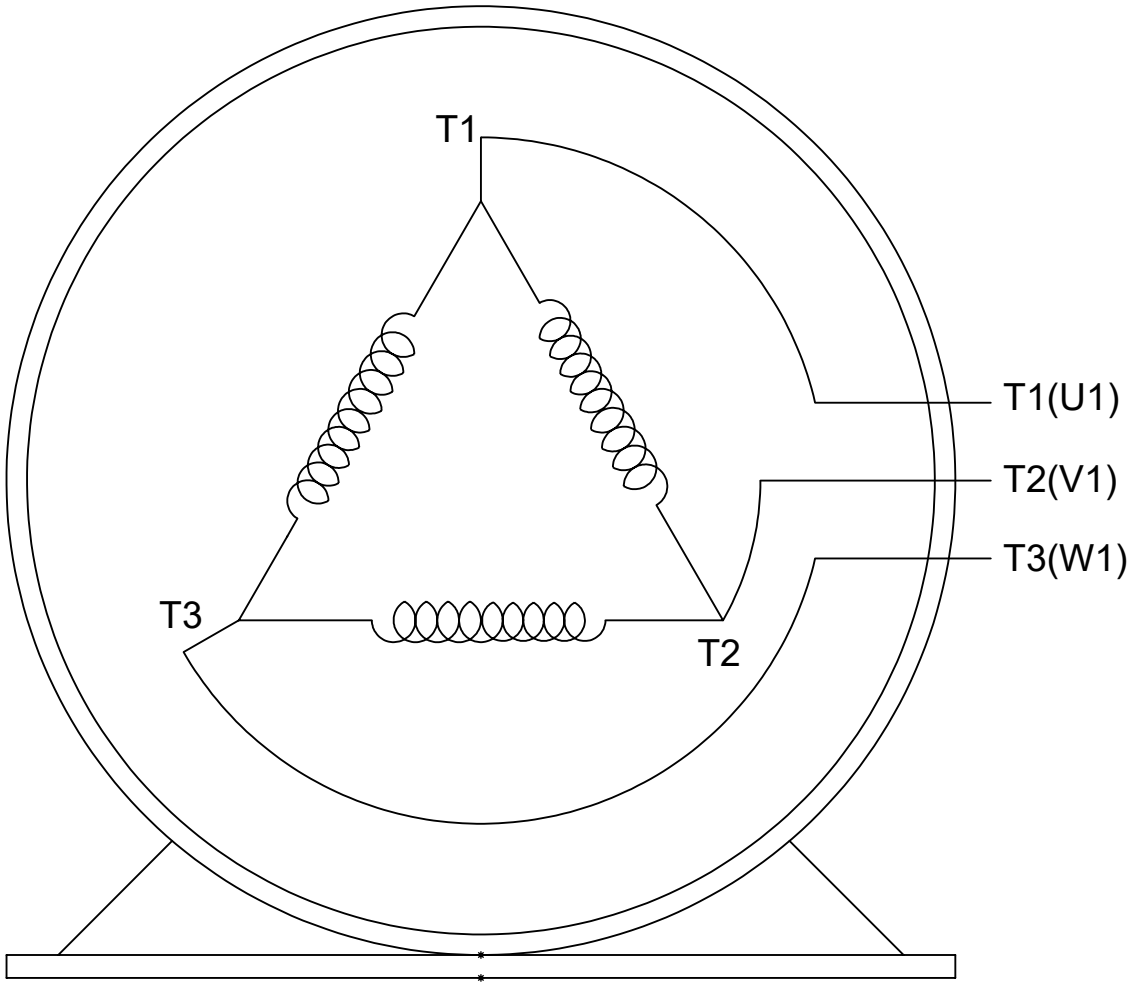
IF MOTOR HAS 6 LEADS



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
DRAWING TITLE BLOCK UPDATED

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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

Data Sheet

Date: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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445TTDN16002

Submittal

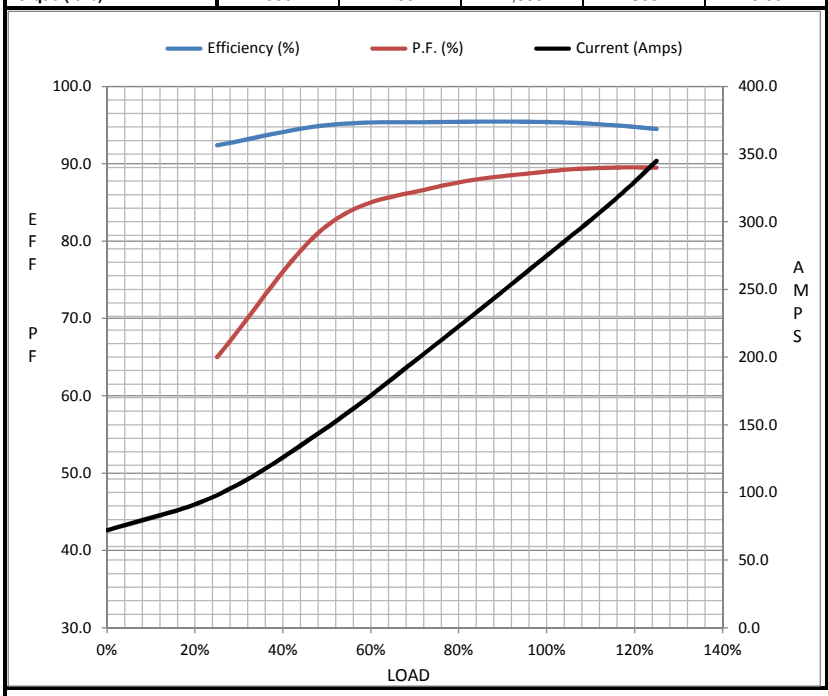
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	72.0	98.0	148	210	275	315	345	1,800	
Torque (ft-lb)	0.00	91.5	183	275	368	424	461	550	
RPM	3600	3592	3585	3578	3570	3,565	3562	0	
Efficiency (%)		92.4	95.0	95.4	95.4	95.0	94.5		
P.F. (%)	6.0	65.0	82.0	87.0	89.0	89.5	89.5	26.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3425	3570	3600
Current (Amps)	1,800	1,650	1,050	275	72.0
Torque (ft-lb)	550	400	1,000	368	0.00



Information Block

HP	250.0
Sync. RPM	3600
Frame	445
Enclosure	DP
Construction	TDN
Voltage	460 V
Frequency	60 Hz
Design	A
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	29.0 Lb-Ft²
Ref Wdg	T445294 NONE
Sound Pressure @ 1M	84 dBA
VFD Rating	NONE
Outline Dwg	B-SS555828-2538
Conn. Diag	A-EE7300U

Additional Specifications:

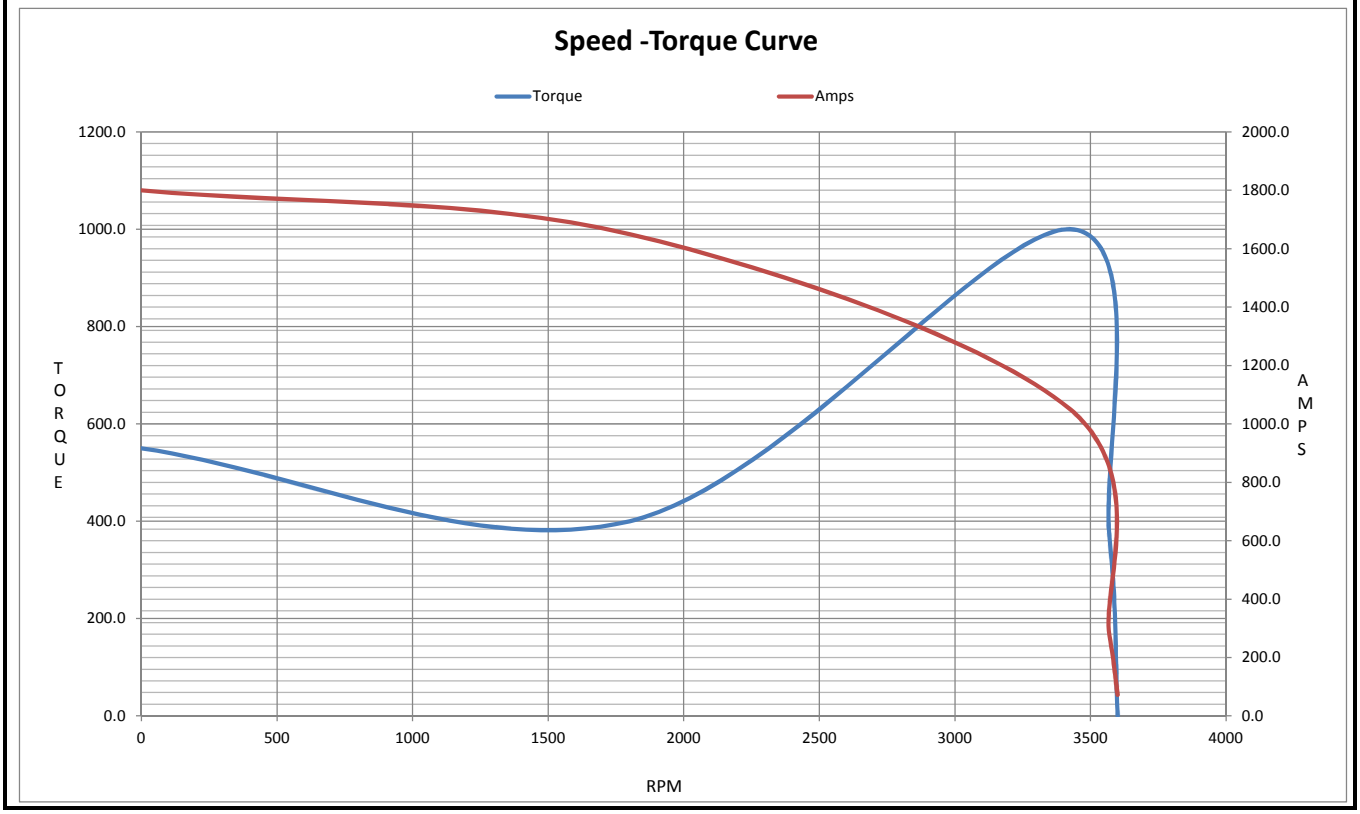
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0150	0.0080	0.1120	0.0600	3.6730

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	445TTDN16002 AA	**WINDING#:**	T445294 NONE 2
CONN. DIAGRAM:	A-EE7300U	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS555828-2538		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
250	187	3600	3570	445HPV	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	275	ACROSS THE LINE	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 95.4	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89	3/4 LOAD PF: 87	1/2 LOAD PF: 82	94.5	SQ CAGE IND RUN	72

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
368 LB-FT	1800	550 LB-FT 150	1000 LB-FT 272	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
84 dBA	94 dBA	29 LB-FT^2	- LB-FT^2	10 SEC.	-	1900 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	DUPLEX TANDEM ANGULAR CONTACT	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6313	7313 2						

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: NONE
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

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