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Fire Pump Motors

Model No: 286TSTFPA14006
Catalog No: Y1614

Fire Pump Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286TS Frame, TEFC

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Product Information Packet: Model No: 286TSTFPA14006, Catalog No: Y1614 Fire Pump Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286TS Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**30 & 25 Hp**
Output KW	**22.4 & 18.7 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3518 & 2915 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**286TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91 & 90.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**69/34.5 & 71/35.5 A**
Power Factor	**88.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6210**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

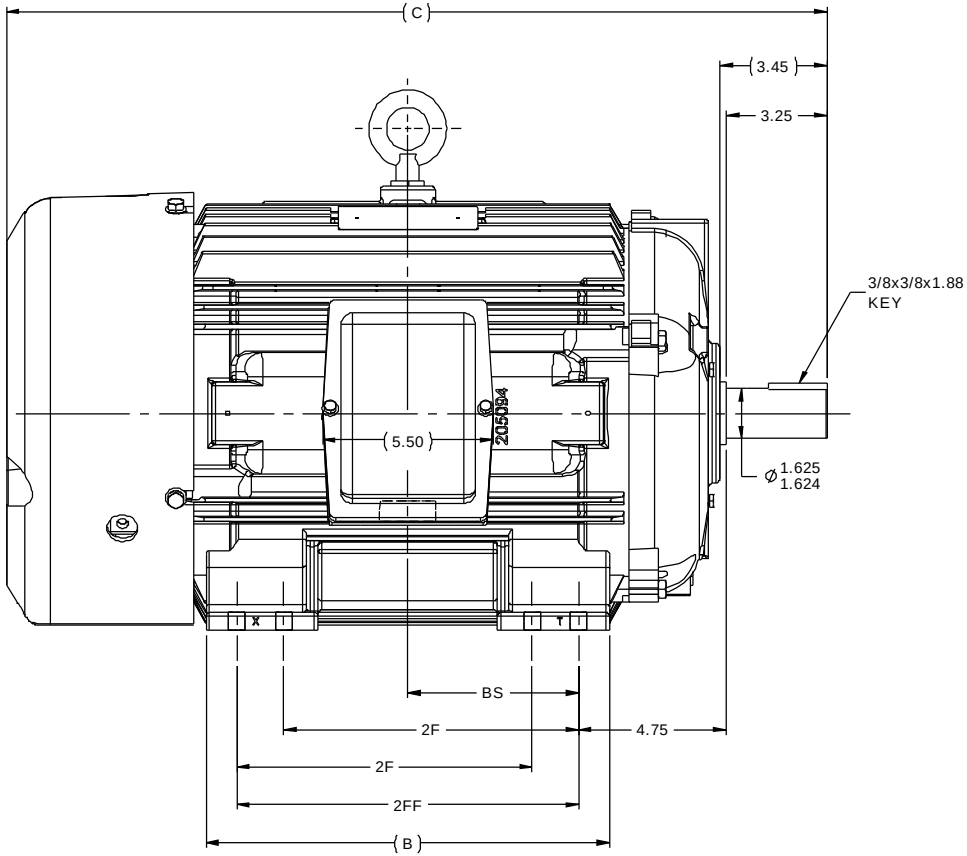
Technical Specifications

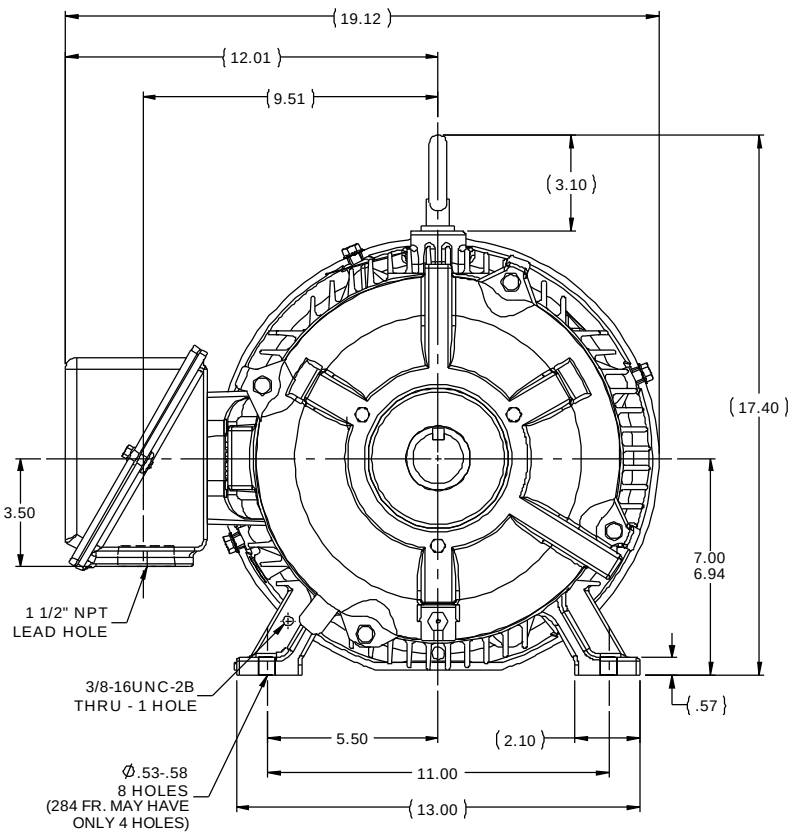
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.28 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Overall Length	**26.43 in**
Frame Length	**14.25 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**3.45 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7358**	Outline Drawing	**B-SS311235-1425**

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NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	B	2F	2FF	BS
1275	284TS	24.93	11.50	9.50	- - -	4.75
1425	284/286TS	26.43	13.00	9.50	11.00	5.50

NO	REVISION	BY & DATE	CHK
3	UPDATED FRAME TO NEW DESIGN AND TO SHOW 8 FOOT HOLES ISAAC 10-2539 + MU112292	MSG 02-27-2013	DR
2	REVISED C'BOX LEAD HOLE FROM 1 1/4 TO 1 1/2 MU39106	CAV 09-28-2001	ML
1	NEW DRAWING MU39106	CAV 09-26-2001	ML

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

THIRD ANGLE PROJECTION

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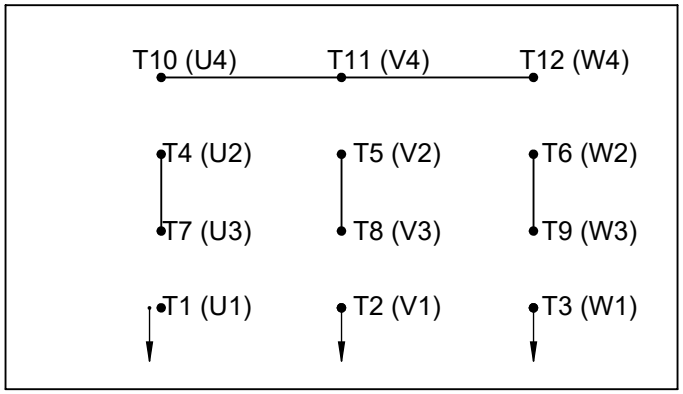
TITLE OUTLINE - TEFC - TFPA
280TS FR. - STD. - 11.00 LAM
MAT'L
FINISH
RFP
PREV
NETWORK FILE NAME SS311235

DRAWN	CAV 09-26-2001
CHK	ML 09-26-2001
APPR	BW 09-26-2001
SCALE	1:4
REF	
FMF	MU39106
PAGE	OF

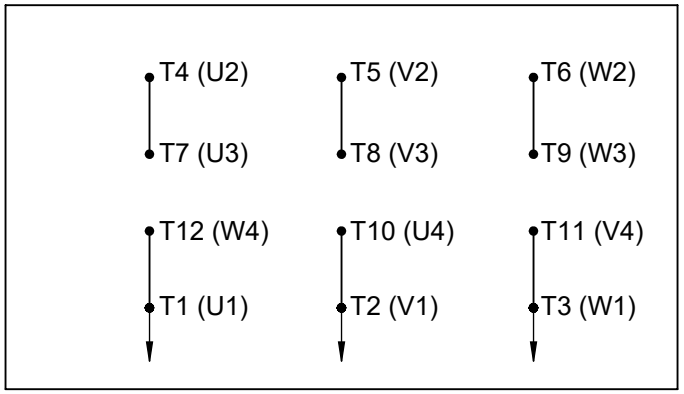
SIZE B | DRAWING NO SS311235 | REV 3

HIGH VOLTAGE

WYE START

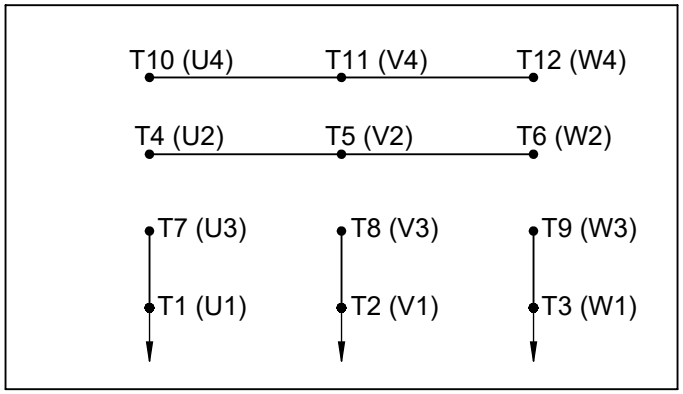


DELTA RUN

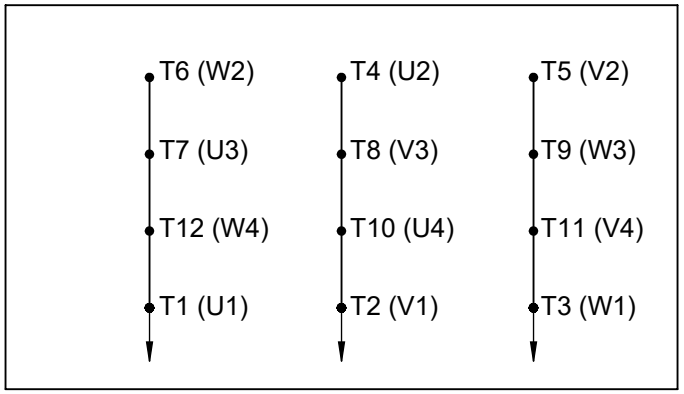


LOW VOLTAGE

WYE START



DELTA RUN



4/2 CKTY △

DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	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	BLR
DATE	03-09-1998
APPROVED BY	GK
DATE	03-23-1998
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
12 LEAD - DUAL VOLT. - WYE START - DELTA RUN

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7358	1 OF 1

Uncontrolled Copy

Data Sheet

Date: 12/10/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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286TSTFPA14006

Submittal

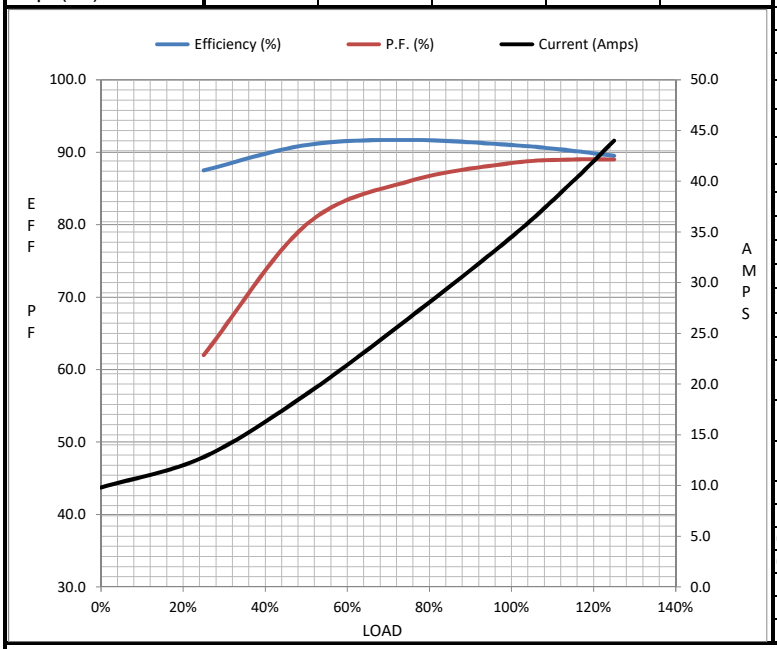
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.8	12.8	19.0	26.5	34.5	40.0	44.0	205	
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.8	51.8	56.5	80.0	
RPM	3600	3580	3560	3540	3518	3,505	3490	0	
Efficiency (%)		87.5	91.0	91.7	91.0	90.2	89.5		
P.F. (%)	9.0	62.0	80.0	86.0	88.5	89.0	89.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1200	3150	3518	3600
Current (Amps)	205	190	125	34.5	9.8
Torque (ft-lb)	80.0	70.0	110	44.8	0.00



Information Block

HP	30.0	
Sync. RPM	3600	
Frame	286	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	75	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	1.65	Lb-Ft²
Ref Wdg	K2562198 NONE	
Sound Pressure @ 1M	75	dBA
VFD Rating	NONE	
Outline Dwg	B-SS311235-1425	
Conn. Diag	A-EE7358	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1990	0.1800	0.7660	0.7760	27.1980

Speed -Torque Curve

