marathon®

Fire Pump Motors

Model No: 326TTFS14046
Catalog No: Y1621

Fire Pump Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 326T Frame, TEFC

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Product Information Packet: Model No: 326TTFS14046, Catalog No: Y1621 Fire Pump Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 326T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**50 & 40 Hp**
Output KW	**37.0 & 30.0 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1778 & 1478 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**326T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**93 & 92.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**122/61 & 119/59.5 A**
Power Factor	**82**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**6311**	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	**4**	Rotation	**Reversible**
Resistance Main	**.108 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**30.38 in**
Frame Length	**13.0 in**	Shaft Diameter	**2 1/8 in**
Shaft Extension	**5.49 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7358**	Outline Drawing	**B-SS28703-1300**

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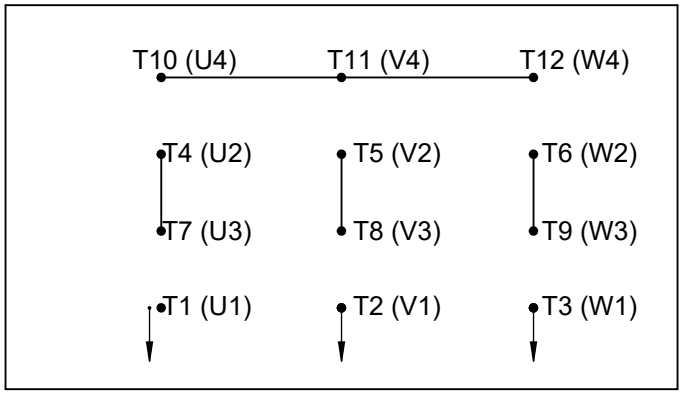
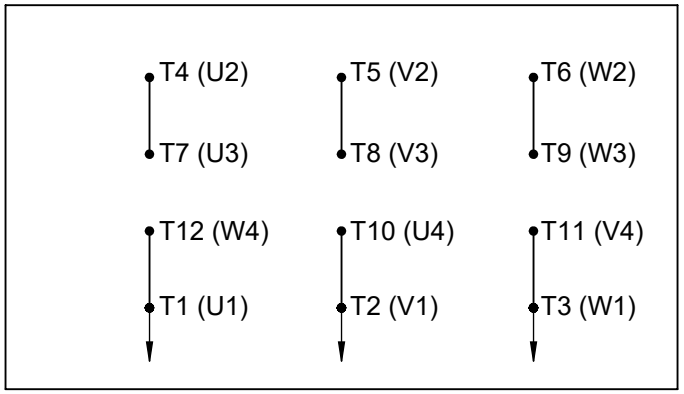
HIGH VOLTAGE

WYE START

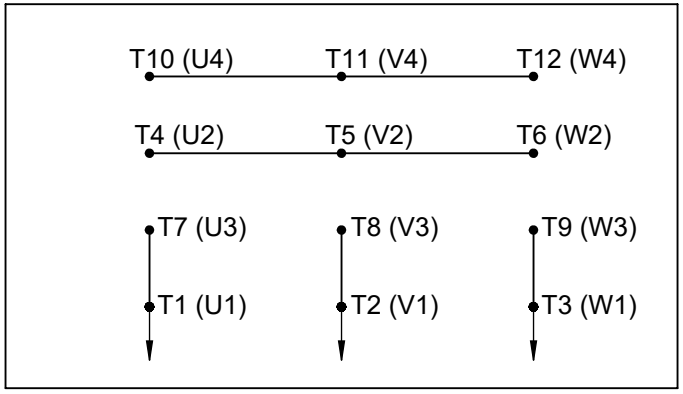


DELTA RUN

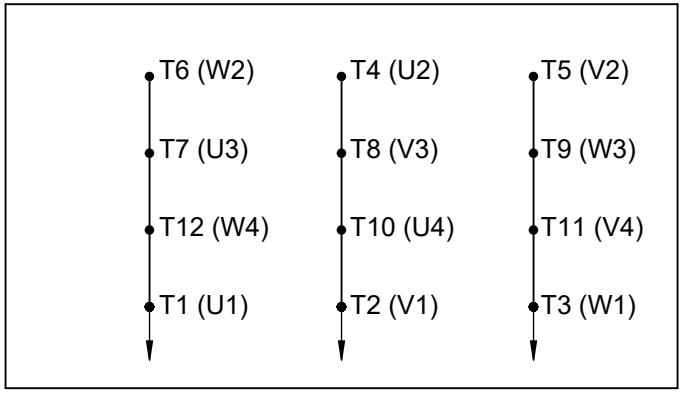


LOW VOLTAGE

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
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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

Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

326TTFS14046

Submittal

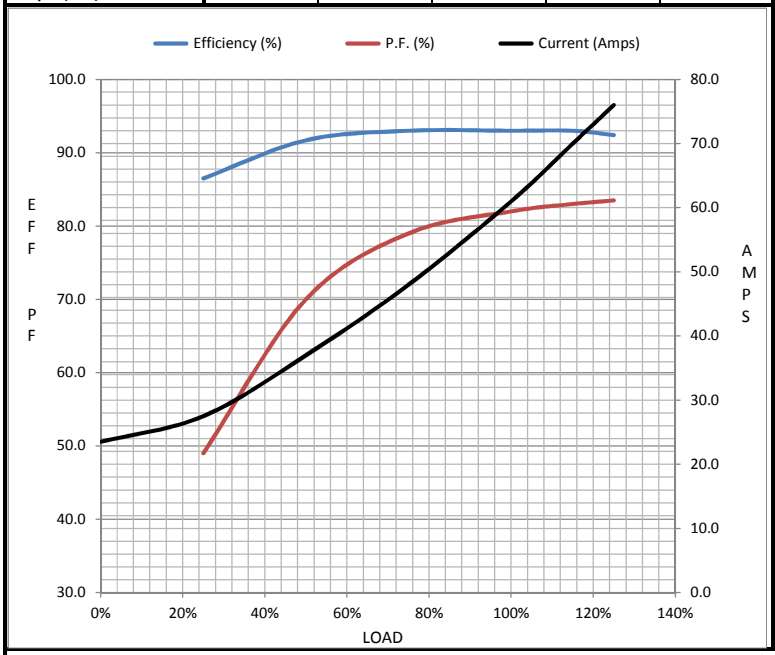
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	23.5	27.5	37.0	48.0	61.0	70.0	76.0	345	
Torque (ft-lb)	0.00	36.6	73.5	111	148	170	185	260	
RPM	1800	1795	1788	1785	1778	1,772	1770	0	
Efficiency (%)		86.5	91.7	93.0	93.0	93.0	92.4		
P.F. (%)	7.0	49.0	70.0	79.0	82.0	83.0	83.5	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1778	1800
Current (Amps)	345	310	200	61.0	23.5
Torque (ft-lb)	260	225	340	148	0.00



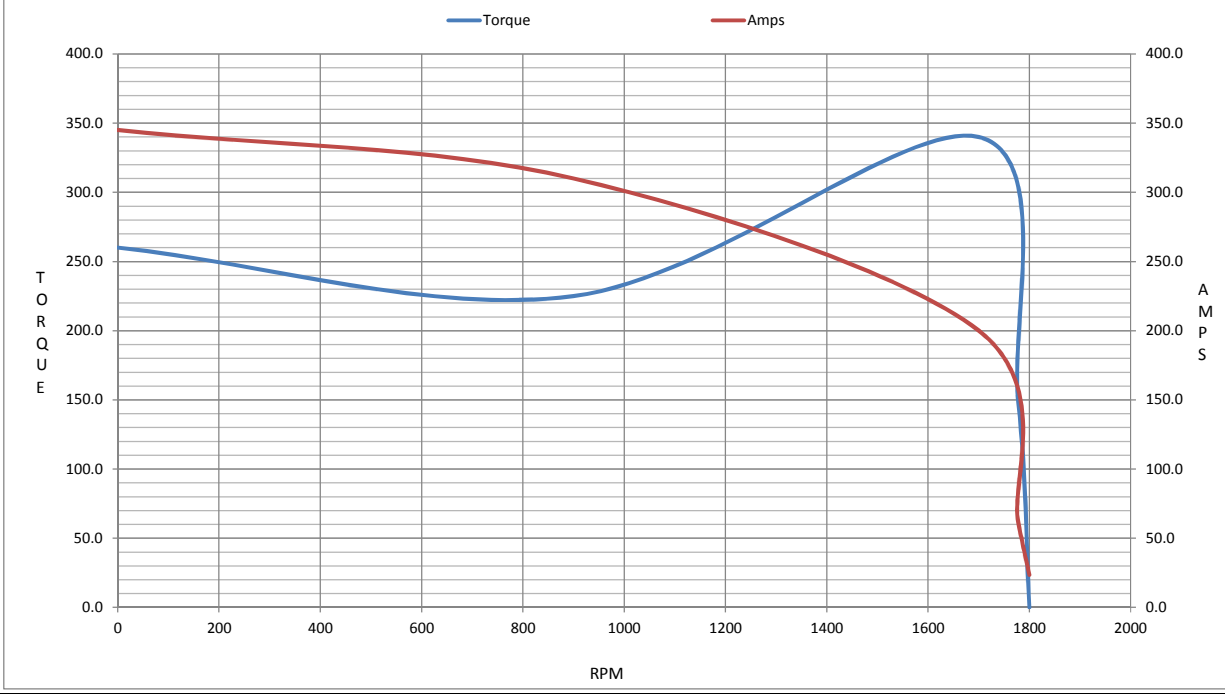
Information Block

HP	50.0
Sync. RPM	1800
Frame	326
Enclosure	TEFC
Construction	TFN
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	70 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	9.0 Lb-Ft²
Ref Wdg	K3264195 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	NONE
Outline Dwg	B-SS28703-1300
Conn. Diag	A-EE7358
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0770	0.0600	0.4820	0.6240	11.3120

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	326TTFS14046 AN	**WINDING#:**	K3264195 NONE 2
CONN. DIAGRAM:	A-EE7358	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS28703-1300		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37&30	1800	1778&1478	326T	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	122/61&119/59.5	PWS(LV ONLY) & YDRUN	CONTINUOUS	F3	1.15/1.15	40	3300

FULL LOAD EFF: 93&92.4	3/4 LOAD EFF: 93	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82&82	3/4 LOAD PF: 79	1/2 LOAD PF: 70	91.7	SQ CAGE IND RUN	47 / 23.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	690 / 345	260 LB-FT 175	340 LB-FT 230	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	9 LB-FT^2	325 LB-FT^2	25 SEC.	-	725 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6312	BALL 6311	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

* NOTES *

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