marathon®

Fire Pump Motors

Model No: 284TTFPA14055
Catalog No: Y1613

Fire Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284T Frame, TEFC

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Product Information Packet: Model No: 284TTFPA14055, Catalog No: Y1613 Fire Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**25 & 20 Hp**
Output KW	**18.7 & 14.9 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1775 & 1470 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**284T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**92.4 & 91.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**61/30.5 & 60/30 A**
Power Factor	**83**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6210**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

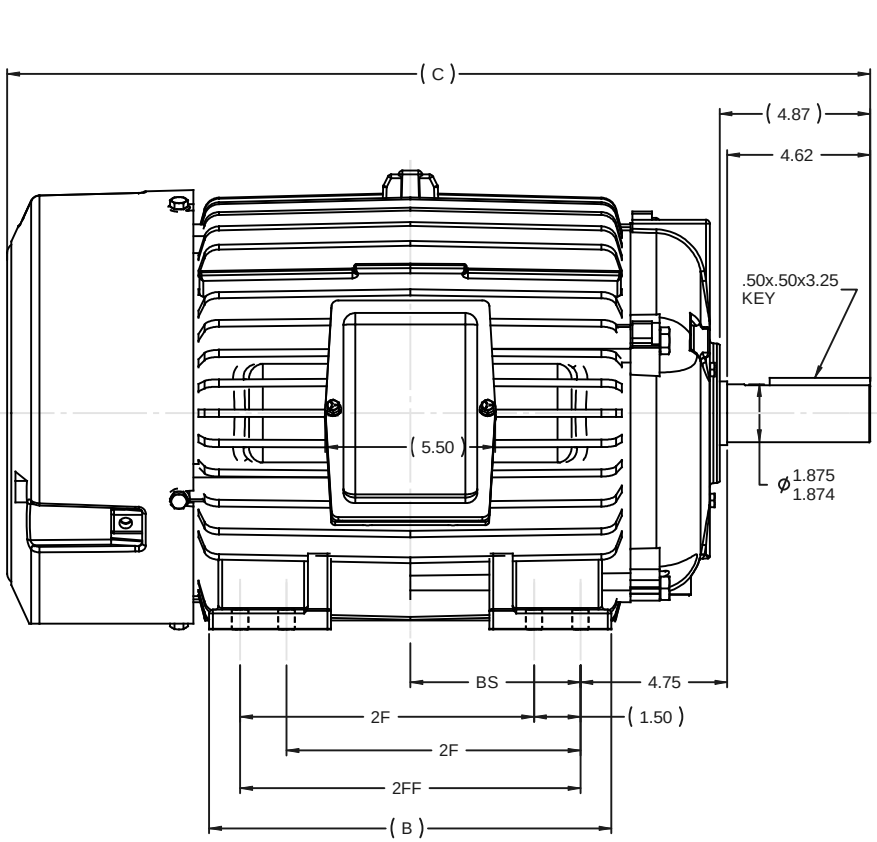
Technical Specifications

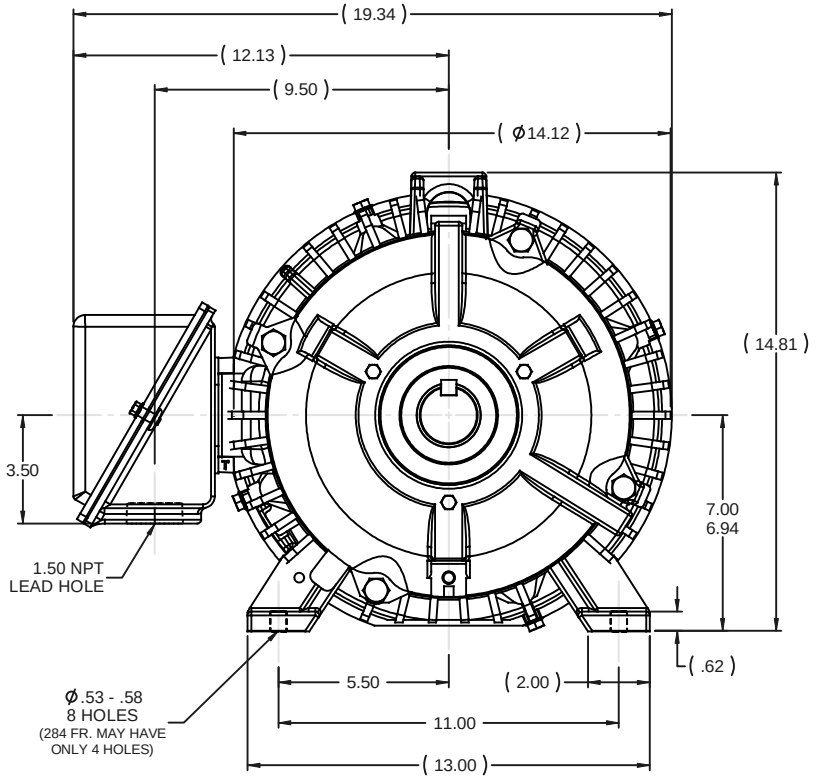
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.35 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**26.39 in**
Frame Length	**12.76 in**	Shaft Diameter	**1 7/8 in**
Shaft Extension	**4.87 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**A-EE7358**	Outline Drawing	**B-SS311037-1275**

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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- NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
1275	284T	11.50	26.39	9.50		4.75
1425	286T	13.00	27.89	9.50	11.00	5.50

NO	REVISION	BY & DATE	CHK
4	REVISED MOUNTING HOLE QUANTITY CN 40694	DRS 10-25-2006	ML
3	REDRAWN IN AUTOCAD	TAT 05-19-2005	ML
2	REMOVED DUAL DRILLING FROM FEET CN 29200-991	NJS 10-26-2000	
1	NEW DRAWING	DRS 07-10-2000	

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

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TITLE OUTLINE - TEFC - TFPA
280T FR. - STD - 11.00 LAM - CAST C'BOX

MAT'L
FINISH

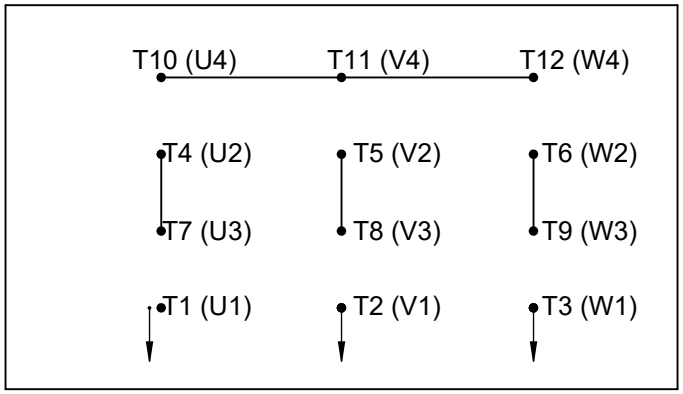
DRAWN DRS 07-06-2000
CHK ML 07-10-2000
APPR SW 07-10-2000
SCALE 1:4
REF
FMF
PREV SS200126

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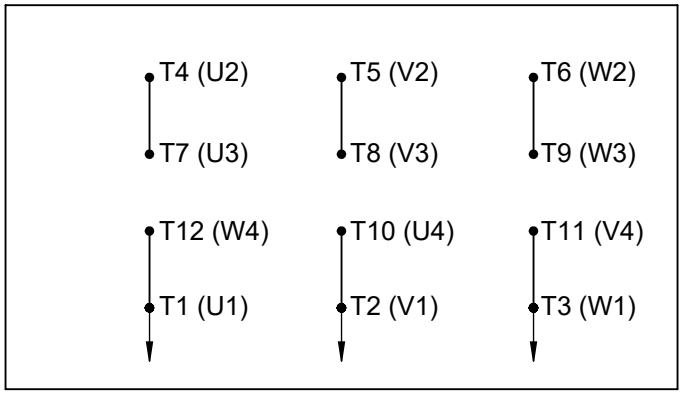
RFP
DIST LB
CAD FILE SS311037
SIZE B
DRAWING NO SS311037
REV 4

HIGH VOLTAGE

WYE START

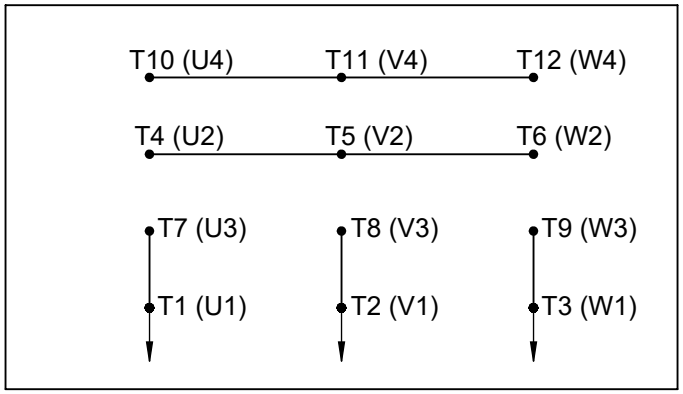


DELTA RUN

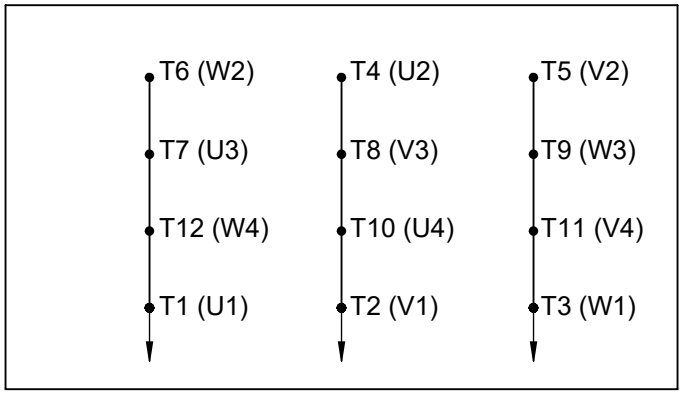


LOW VOLTAGE

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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DATE	03-09-1998
APPROVED BY	GK
DATE	03-23-1998
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

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

marathon® electric

284TTFPA14055

Submittal

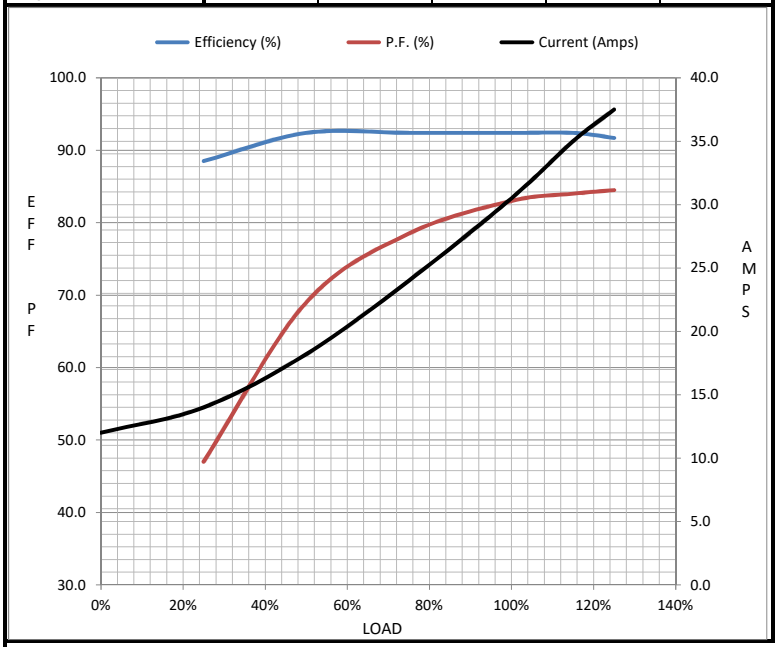
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.0	14.0	18.2	24.0	30.5	35.0	37.5	178	
Torque (ft-lb)	0.00	18.3	36.7	55.4	74.0	85.5	93.0	145	
RPM	1800	1795	1785	1780	1775	1,770	1765	0	
Efficiency (%)		88.5	92.4	92.4	92.4	92.4	91.7		
P.F. (%)	5.5	47.0	69.0	78.5	83.0	84.0	84.5	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1625	1775	1800
Current (Amps)	178	165	105	30.5	12.0
Torque (ft-lb)	145	125	190	74.0	0.00



Information Block

HP	25.0
Sync. RPM	1800
Frame	284
Enclosure	TEFC
Construction	TFS
Voltage	230/460#190/380 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	3.2 Lb-Ft²
Ref Wdg	K2564251 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	NONE
Outline Dwg	B-SS311037-1275
Conn. Diag	A-EE7358
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.2340	1.3790	0.8210	1.2310	21.9340

Speed -Torque Curve

