marathon®

Fire Pump Motors

Model No: 286TTDBD4035
Catalog No: U1104

Fire Pump Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 286T Frame, DP

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Product Information Packet: Model No: 286TTDBD4035, Catalog No: U1104 Fire Pump Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 286T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**30 Hp**
Output KW	**22.4 kW**	Voltage	**575 V**
Speed	**1770 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**286T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**92.4 %**	Ambient Temperature	**50 °C**
Frequency	**60 Hz**	Current	**28.8 A**
Power Factor	**84**	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	**23**	Number of Speeds	**1**

Technical Specifications

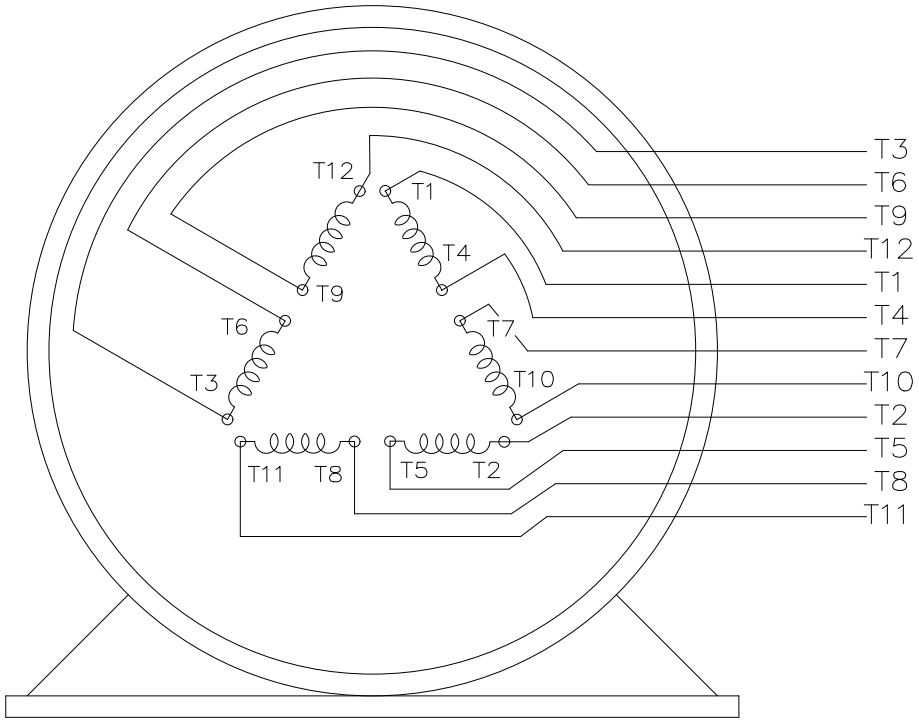
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Part Wdg Start & Wye Start Delta Run**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.43 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**27.09 in**
Frame Length	**13.97 in**	Shaft Diameter	**1 7/8 in**
Shaft Extension	**4.62 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7300BH**	Outline Drawing	**SS620687-286T**

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VIEW OF TERMINAL END

T12(W4)
T1(U1)
T6(W2)
T7(U3)
LINE 1

T2(V1)
T4(U2)
T8(V3)
T10(U4)
LINE 2

T3(W1)
T5(V2)
T9(W3)
T11(V4)
LINE 3

DRAWING REVISION: E	REVISION BY: SB	REV DATE/ © DATE: 08/04/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/04/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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DRAWN BY: RJW	marathon™	
DATE: 02/11/2005		
APPROVED BY: GK	DESCRIPTION: CONNECTION DIAGRAM 12 LEAD - SINGLE VOLTAGE	
DATE: 02/11/2005		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7300BH	SHEET: 1 OF 1

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Data Sheet

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

marathon® electric

286TTDBD4035

Submittal

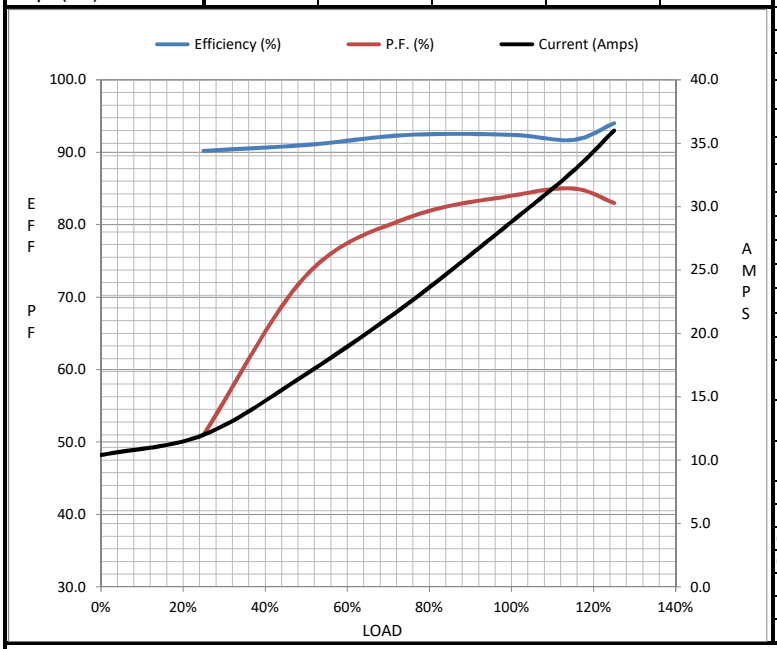
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	10.4	12.0	16.8	22.4	28.8	32.8	36.0	160	
Torque (ft-lb)	0.00	22.2	44.4	66.6	88.8	102	111	150	
RPM	1800	1792	1785	1778	1770	1,765	1760	0	
Efficiency (%)		90.2	91.0	92.4	92.4	91.7	94.0		
P.F. (%)	4.5	51.0	73.0	81.0	84.0	85.0	83.0	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1770	1800
Current (Amps)	160	140	96.0	28.8	10.4
Torque (ft-lb)	150	130	200	88.8	0.00



Information Block

HP	30.0	
Sync. RPM	1800	
Frame	286	
Enclosure	DP	
Construction	TDB	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	0	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	IE3L1804111 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	SS620687	
Conn. Diag	EE7300BH	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.4140	0.1920	1.1230	1.5220	32.4450

Speed -Torque Curve

