marathon®

Fire Pump Motors

Model No: 404TSTDCD4017
Catalog No: U530A

Fire Pump Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380-400 V, 3600 RPM, 404TS Frame, DP

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Product Information Packet: Model No: 404TSTDCD4017, Catalog No: U530A Fire Pump Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380-400 V, 3600 RPM, 404TS Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**125 & 100 Hp**
Output KW	**93.0 & 75.0 kW**	Voltage	**460 & 380-400 V**
Speed	**3575 & 2975 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**404TS**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93.6 & 93 %**	Ambient Temperature	**50 °C**
Frequency	**60 & 50 Hz**	Current	**139 & 135-130 A**
Power Factor	**89**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**6313**	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	**2**	Rotation	**Reversible**
Resistance Main	**.07 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	**33.86 in**
Frame Length	**19.68 in**	Shaft Diameter	**2 1/8 in**
Shaft Extension	**4.25 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7300BH**	Outline Drawing	**SS620752-404TS**

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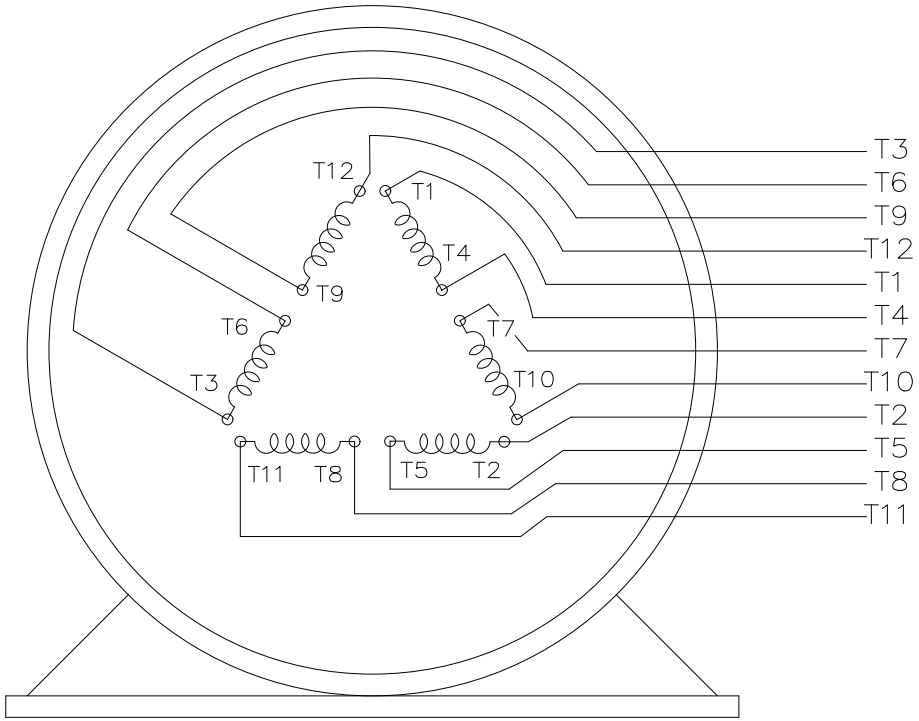

VIEW OF TERMINAL END

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

Data Sheet

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

404TSTDCD4017

Submittal

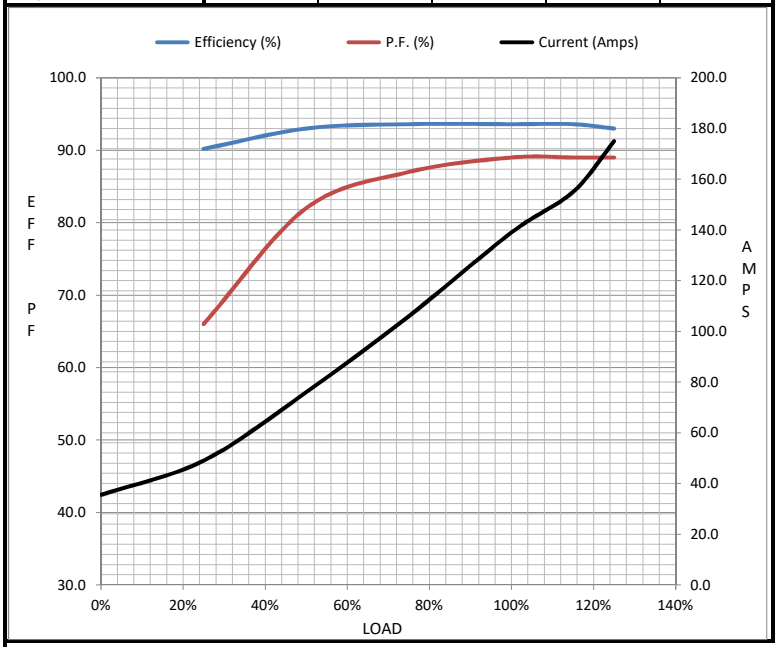
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	35.5	49.0	76.0	106	139	155	175	800	
Torque (ft-lb)	0.00	45.5	91.5	138	184	212	230	260	
RPM	3600	3595	3588	3580	3575	3,568	3565	0	
Efficiency (%)		90.2	93.0	93.6	93.6	93.6	93.0		
P.F. (%)	8.0	66.0	82.0	87.0	89.0	89.0	89.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3575	3600
Current (Amps)	800	750	500	139	35.5
Torque (ft-lb)	260	225	425	184	0.00



Information Block

HP	125.0	
Sync. RPM	3600	
Frame	404	
Enclosure	DP	
Construction	TDC	
Voltage	460#380	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	IE3L2502110 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	SS620752	
Conn. Diag	EE7300BH	

Additional Specifications:

0

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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0420	0.0150	0.1880	0.2000	7.4120

Speed -Torque Curve

