marathon®

Fire Pump Motors

Model No: 256TTDBD4024
Catalog No: U500A

Fire Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 256T Frame, DP

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Product Information Packet: Model No: 256TTDBD4024, Catalog No: U500A Fire Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 256T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**25 & 20 Hp**
Output KW	**18.7 & 14.9 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3545 & 2945 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**256T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**91 & 89.5 %**	Ambient Temperature	**50 °C**
Frequency	**60 & 50 Hz**	Current	**58/29 & 56/28 A**
Power Factor	**88**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6209**
Opp Drive End Bearing Size	**6208**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**23**	Number of Speeds	**1**

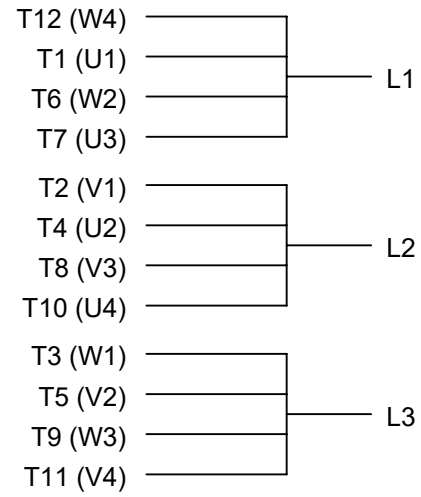
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.635 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	**24.22 in**
Frame Length	**12.2 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**4.00 in**	Assembly/Box Mounting	**F1/F2 Capable**

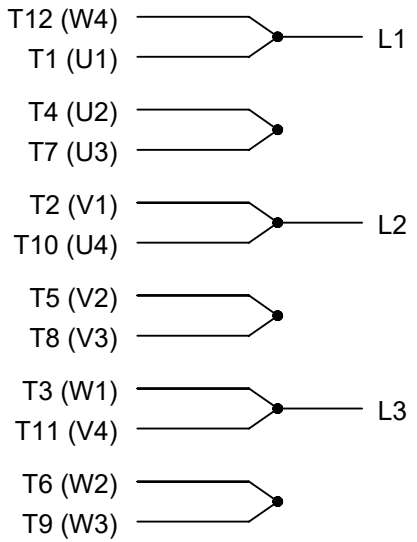
Drawings

Connection Drawing	**EE7308AA**	Outline Drawing	**SS620685-256T**

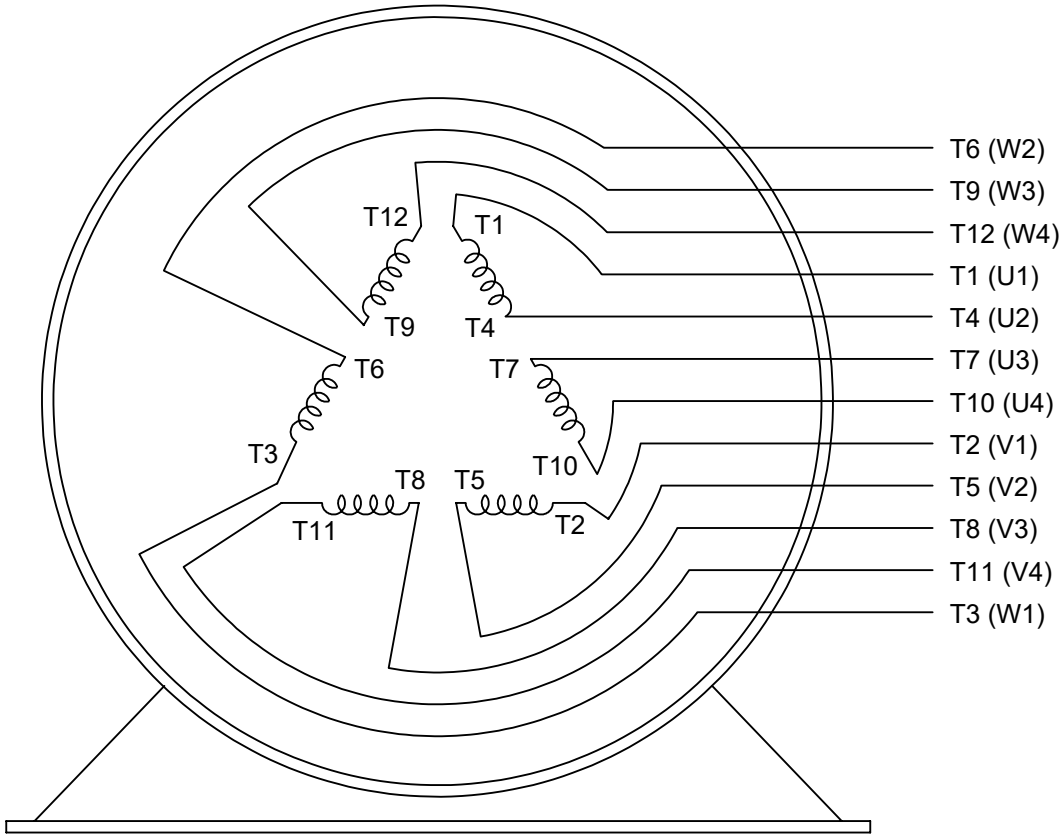
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LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION: L	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: LZ	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 01-12-1994	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS
				DATE: 01-14-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7308AA / SHEET: 1 OF 1

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Data Sheet

Date: 1/25/2019
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® Motors

256TTDBD4024

Submittal

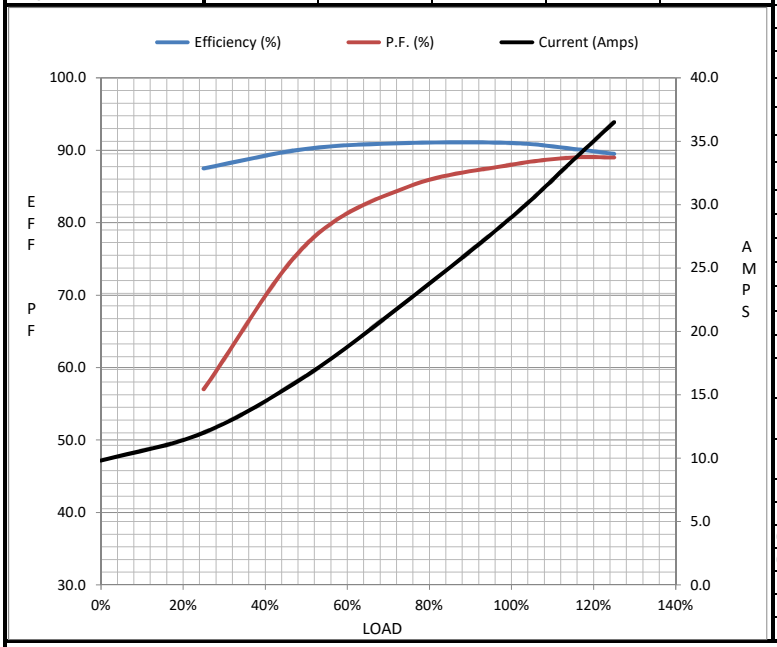
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.8	12.0	16.5	22.5	29.0	33.5	36.5	175	
Torque (ft-lb)	0.00	9.2	18.5	27.8	37.2	42.8	46.5	56.0	
RPM	3600	3585	3575	3560	3545	3,535	3525	0	
Efficiency (%)		87.5	90.2	91.0	91.0	90.2	89.5		
P.F. (%)	7.0	57.0	77.0	85.0	88.0	89.0	89.0	44.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3545	3600
Current (Amps)	175	160	105	29.0	9.8
Torque (ft-lb)	56.0	48.0	92.0	37.2	0.00



Information Block

HP	25.0
Sync. RPM	3600
Frame	256
Enclosure	DP
Construction	TDB
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	40 ° C
Duty	CONT
Ambient	50 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	IE3L1602110 NONE
Sound Pressure @ 1M	0 dBA
VFD Rating	NONE
Outline Dwg	SS620685-256T
Conn. Diag	EE7308AA
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3740	0.1420	0.8620	0.7480	28.1460

Speed -Torque Curve

