

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 256TTDX4024  
Catalog No: U500  
25,3600,DP,256T,3/60/230/460YD  
Fire Pump



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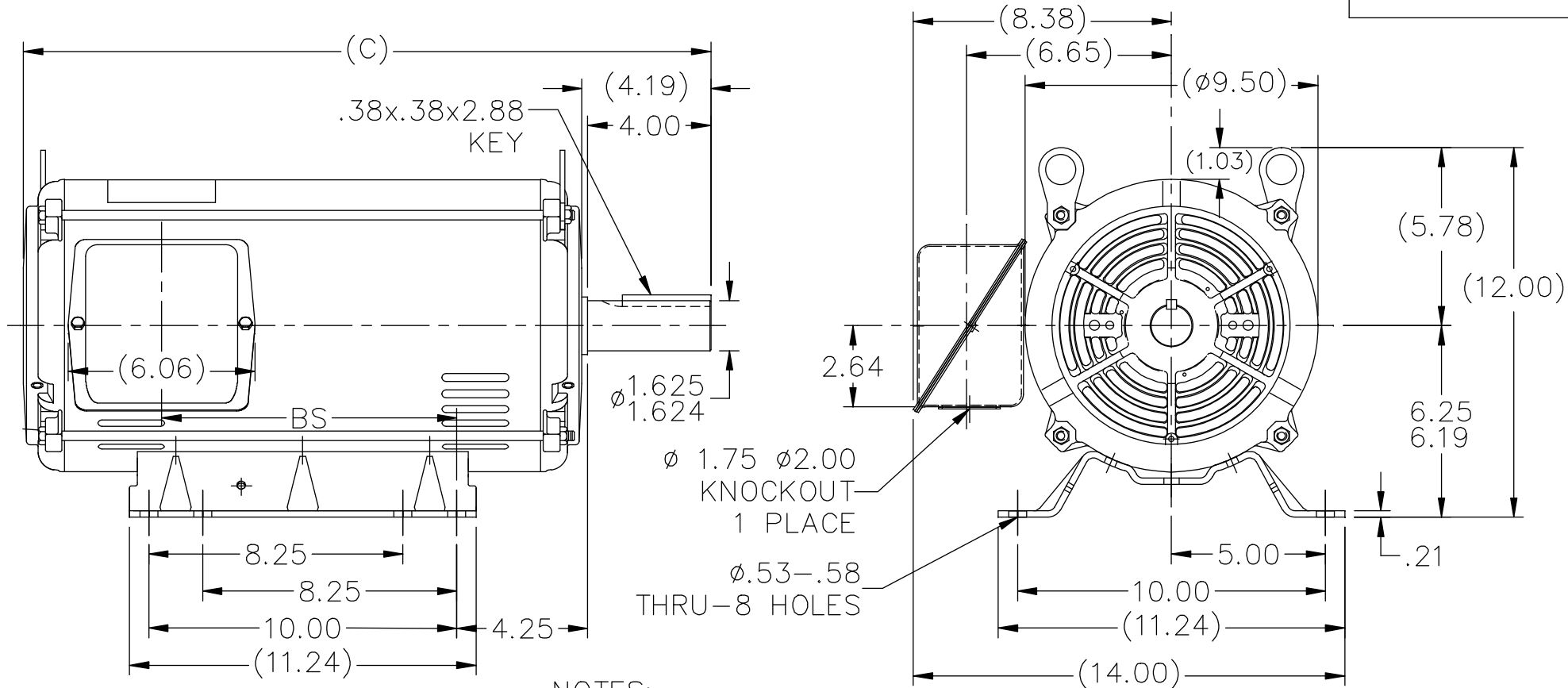
### Nameplate Specifications

Output HP	<b>25 Hp</b>	Output KW	<b>18.7 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>58.0/29.0 A</b>	Speed	<b>3520 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>91 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>B</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>256T</b>
Enclosure	<b>Drip Proof</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6309</b>
Opp Drive End Bearing Size	<b>6208</b>	UL	<b>No</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>12</b>		

### Technical Specifications

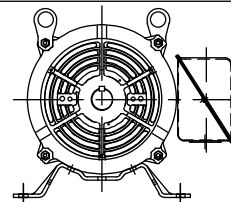
Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Wye Start Delta Run</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Ball</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Rolled Steel</b>	Shaft Type	<b>T</b>
Overall Length	<b>22.32 in</b>	Frame Length	<b>15.45 in</b>
Shaft Diameter	<b>1.625 in</b>	Shaft Extension	<b>4.19 in</b>
Assembly/Box Mounting	<b>F1/F2 Capable</b>		
Outline Drawing	<b>A-SS86503-1545</b>	Connection Diagram	<b>A-EE7358</b>

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NOTES:

1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.
3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED.)
4. F2 MOUNT -USES 2ND HOLE ON 1370 FRAME.



F2 VIEW

DASH	FR.	C	BS	MOUNTING
1370	254T	20.57	7.68	F1 OR F2
1545	254T/256T	22.32	9.43	F1 OR F2

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED	
					DEC.	INCHES
8	ADDED F2 VIEW	UD 11/13/13	GR			
7	UPDATED DRAWING	TJW 04/27/2007		DEC.	INCHES	
6	REDRAWN IN AUTOCAD	TAT 05-19-2005	ML	.X	±.1	
5	UPDATED CONDUIT BOX CN 28427	TJB 01-31-2000		.XX	±.03	
4	ADDED NOTE #4 FOR F2 MOUNT CN 24000-581	MH 06-10-1997		.XXX	±.005	
3	DASH 1545 WAS FOR 256T FR. ONLY CN 18683	KL 09-12-1994		.XXXX	±.0005	
				±7'30"		



TITLE OUTLINE  
250 FR. - BB - DR.PR.  
MAT'L.  
FINISH

DRAWN	SMC 04-22-1993
CHK	MOL 04-23-1993
APPD	DRN 09-13-1993
SCALE	1=5
REF	
FMF	
PREV	

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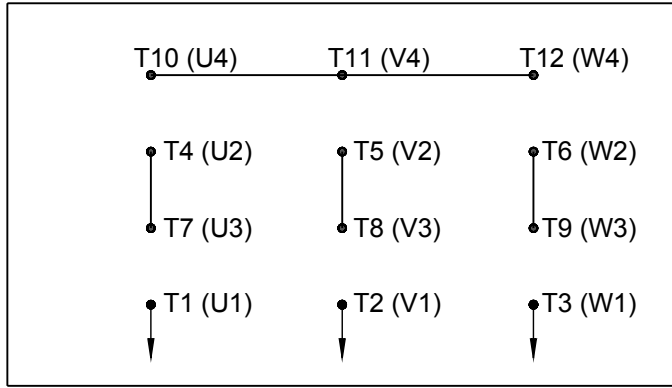
RFP  
DIST LB

CAD FILE ss86503  
SIZE A

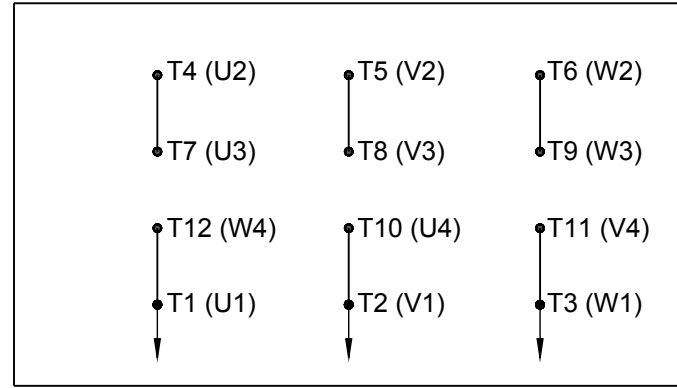
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SS86503 8

# HIGH VOLTAGE

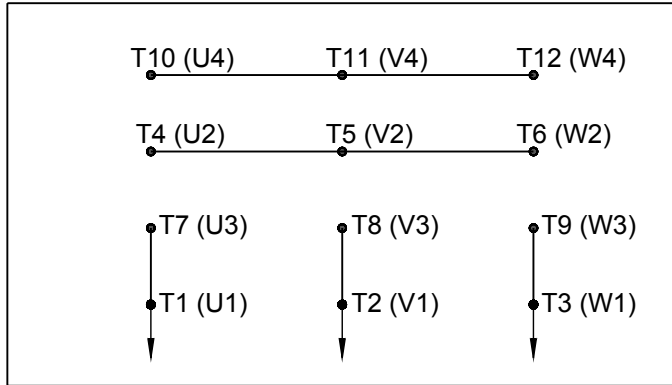
WYE START



DELTA RUN

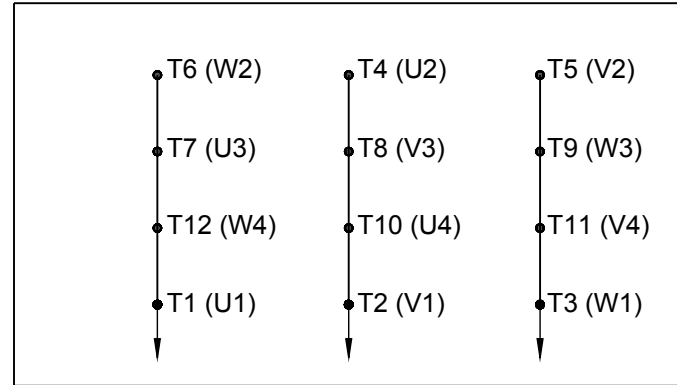


WYE START



# LOW VOLTAGE

DELTA RUN

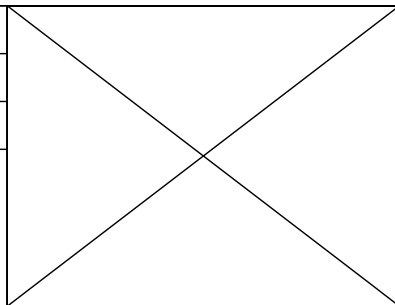


4/2 CKTY  $\triangle$

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016

ECO DESCRIPTION  
**ADDED IEC MARKINGS**

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DRAWN BY BLR		Regal Beloit America, Inc.
DATE 03-09-1998		
APPROVED BY GK	DESCRIPTION <b>CONN DIAGRAM-EXTERNAL</b>	
DATE 03-23-1998	12 LEAD - DUAL VOLT. - WYE START - DELTA RUN	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7358

SHEET 1 OF 1	
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Data Sheet

Date: 29-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



256TTDX4024

Submittal

Data @ 460 V

Motor Load Data

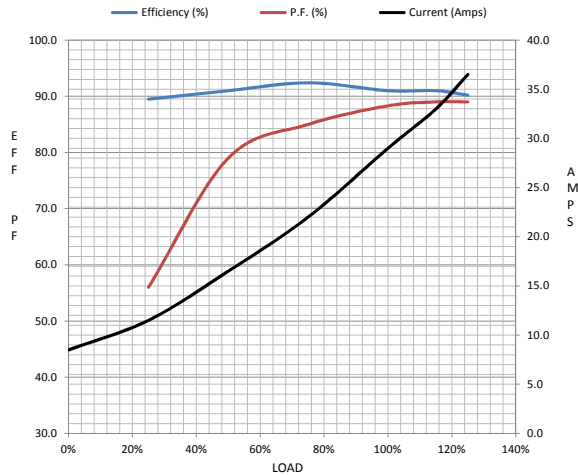
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	8.5	11.5	16.5	22.0	29.0	33.0	36.5	182
Torque (ft-lb)	0.00	9.2	18.5	28.0	37.5	43.0	47.0	72.0
RPM	3600	3580	3565	3545	3520	3,510	3500	0
Efficiency (%)		89.5	91.0	92.4	91.0	91.0	90.2	
P.F. (%)	6.0	56.0	79.0	85.0	88.3	89.0	89.0	41.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1500	3100	3520	3600
Current (Amps)	182	165	125	29.0	8.5
Torque (ft-lb)	72.0	65.0	110	37.5	0.00

Information Block

HP	25.0			
Sync. RPM	3600			
Frame	256			
Enclosure	DP			
Construction	TDX			
Voltage	30/460#190/38V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.75 Lb-Ft <sup>2</sup>			
Ref Wdg	K2152192 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS86503-1545			
Conn. Diag	A-EE7358			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0560	0.0480	0.2060	0.2350	7.1570



Speed -Torque Curve

