

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 254TTGN6047
Catalog No: 254TTGN6047
15,1800,EPFC,254TCV,3/60/230/460

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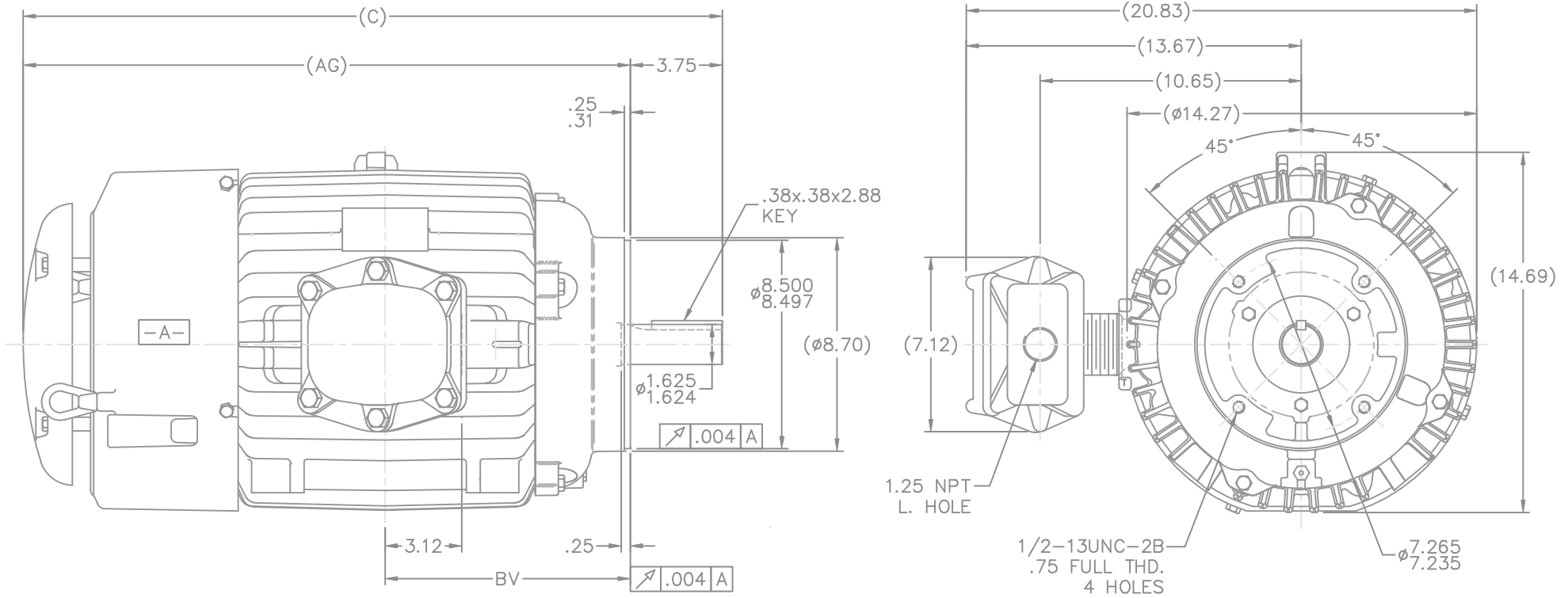
Nameplate Specifications

Phase	3	Output HP	15 Hp
Output KW	11.2 kW	Voltage	230/460 V
Speed	1775 rpm	Service Factor	1
Frame	254TCV	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	92.4 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	37.5/18.8 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	309	Opp Drive End Bearing Size	210
CSA	N	CE	N
IP Code	54	Number of Speeds	1
Hazardous Location	EXP PROOF CL I GR D CL II GR F&G T3B		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.649 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-SS203118-1225	Connection Drawing	A-EE7308T

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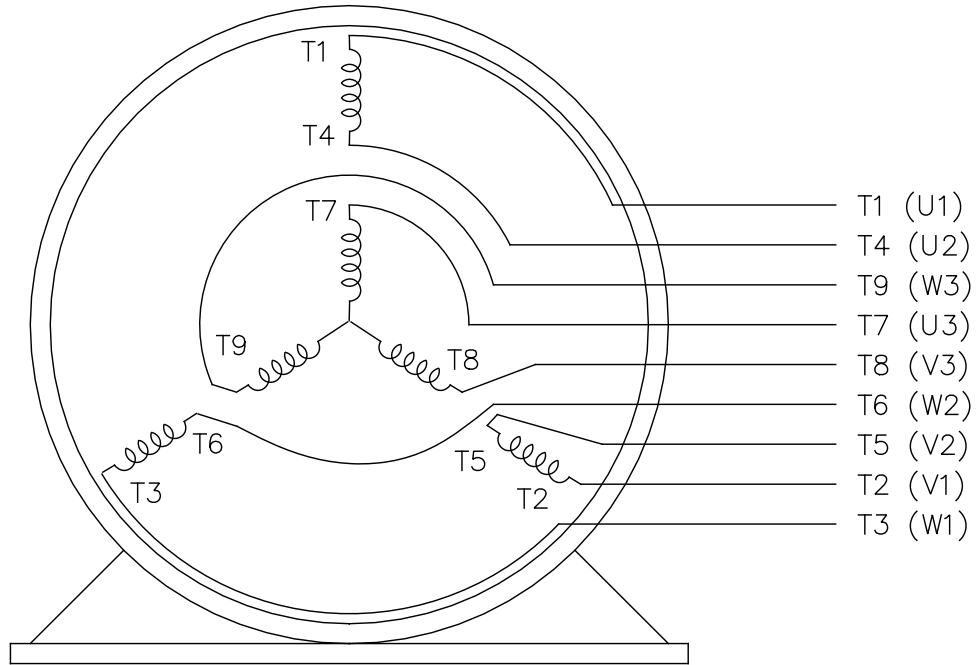
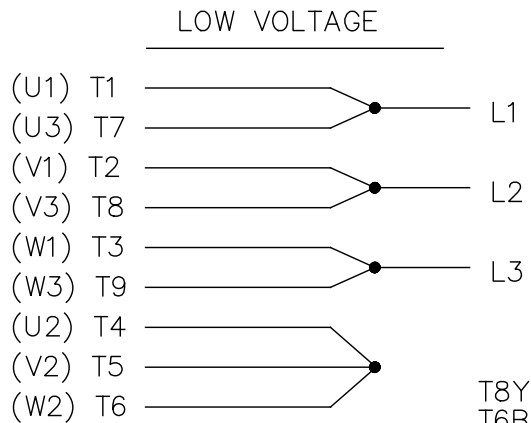
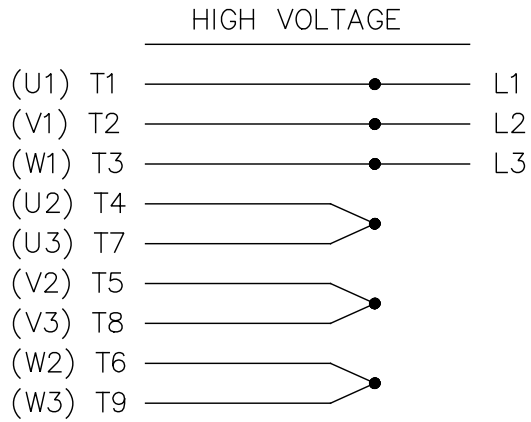


NOTES:

1. BOX CAN BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

					TOLERANCES UNLESS SPECIFIED			DRAWN BLR 06-18-1996						
					DEC.	INCHES		CHK	ML 06-18-1996	APPD	BW 06-18-1996			
DASH	FRAME	C	AG	BV	.X	±.1	TITLE OUTLINE - TEFC 254-6TC FR. -BB -TS -'C' FACES MAT'L (208 HI MOTOR FRAME)	SCALE 1=4						
1225	254-6TC	28.51	24.76	10.00	.XX	±.03		REF						
					.XXX	±.005	FMF							
					.XXXX	±.0005	PREV							
NO. REVISION					BY & DATE	CHK	ANG	±7'30"	FINISH					
2 CLARIFIED COND BOX NOTE CN23925-37 1 NEW DRAWING 4396594					MH 01-17-1997 BLR 06-19-1996	RFP	06-18-1996	CAD FILE	ss203118	SIZE	DRAWING NO.	PAGE	OF	REV.
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT					DIST	LB				B	SS203118			2

THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 WHITE
L2 RED
L3 BLACK

DRAWING REVISION	REVISION BY	DATE
ECO	APPROVED BY	DATE
ECO DESCRIPTION NEW DRAWING		
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TOLERANCES UNLESS OTHERWISE SPECIFIED			
DEC.	mm	INCH	ANGLE
.X	±2.5	±0.11	±0.5°
.XX	±0.51	±0.021	
.XXX	±0.127	±0.0051	
.XXXX	±0.0127	±0.00051	
REMOVE BURRS & BREAK SHARP			
EDGES .08/.38 [0.03/.015] X 45°			
CORNER FILLETS R.51 [0.2]			
MACHINED SURFACES			
		INCH	125 mm 3.2
INCH SHOWN IN [BRACKETS]			

DRAWN BY: AS
DATE: 02/20/2017
APPROVED BY: ST
DATE: 02/20/2017
REFERENCE EE7308
THIRD ANGLE PROJECTION

Trans-Power	
DESCRIPTION CONNECTION DIAGRA 3 PHASE - UAL VOLTAGE	
MATERIAL	PROCESS/FINISH
SIZE DWG NO A EE7308TP	SHEET 1

Data Sheet

Date: 9/16/2024
 Customer: _____
 Attention: _____
 Submitted by: VESHNU G



254TTGN6047

Submittal

Data @ 460 V

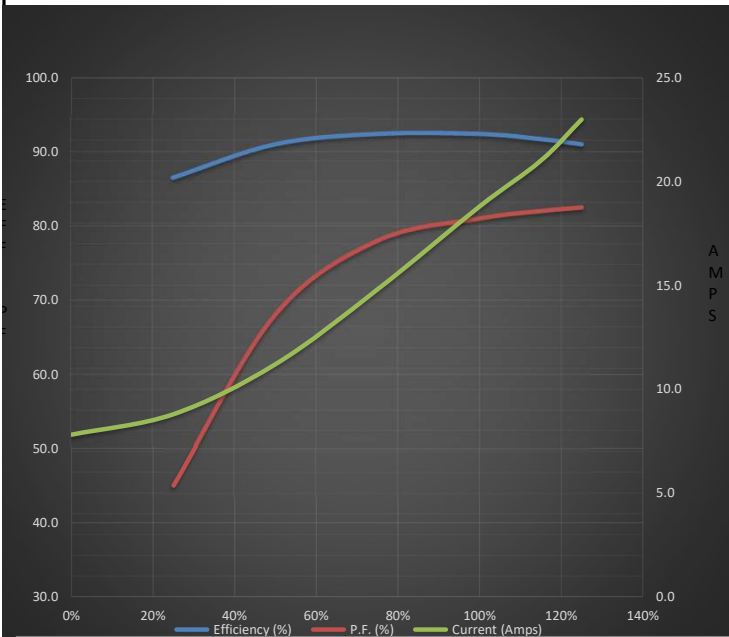
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.8	8.8	11.2	14.8	18.8	21.0	23.0	110
Torque (ft-lb)	-	11.0	22.0	33.5	44.4	50.5	56.0	85.0
RPM	1800	1792	1788	1780	1775	1,770	1765	0
Efficiency (%)		86.5	91.0	92.4	92.4	91.7	91.0	
P.F. (%)	11.5	45.0	68.0	78.0	81.0	82.0	82.5	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1775	1800
Current (Amps)	110	95.0	69.0	18.8	7.8
Torque (ft-lb)	85.0	75.0	125	44.4	0.00

Information Block				
HP	15.0			
Sync. RPM	1800			
Frame	254TCV			
Enclosure	EPFC			
Construction	TGS			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	2.40 Lb-Ft ²			
Ref Wdg	K2564165 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS203118-1225			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3760	0.2380	1.3510	1.7770	32.5080



Speed - Torque Curve

