PRODUCT INFORMATION PACKET

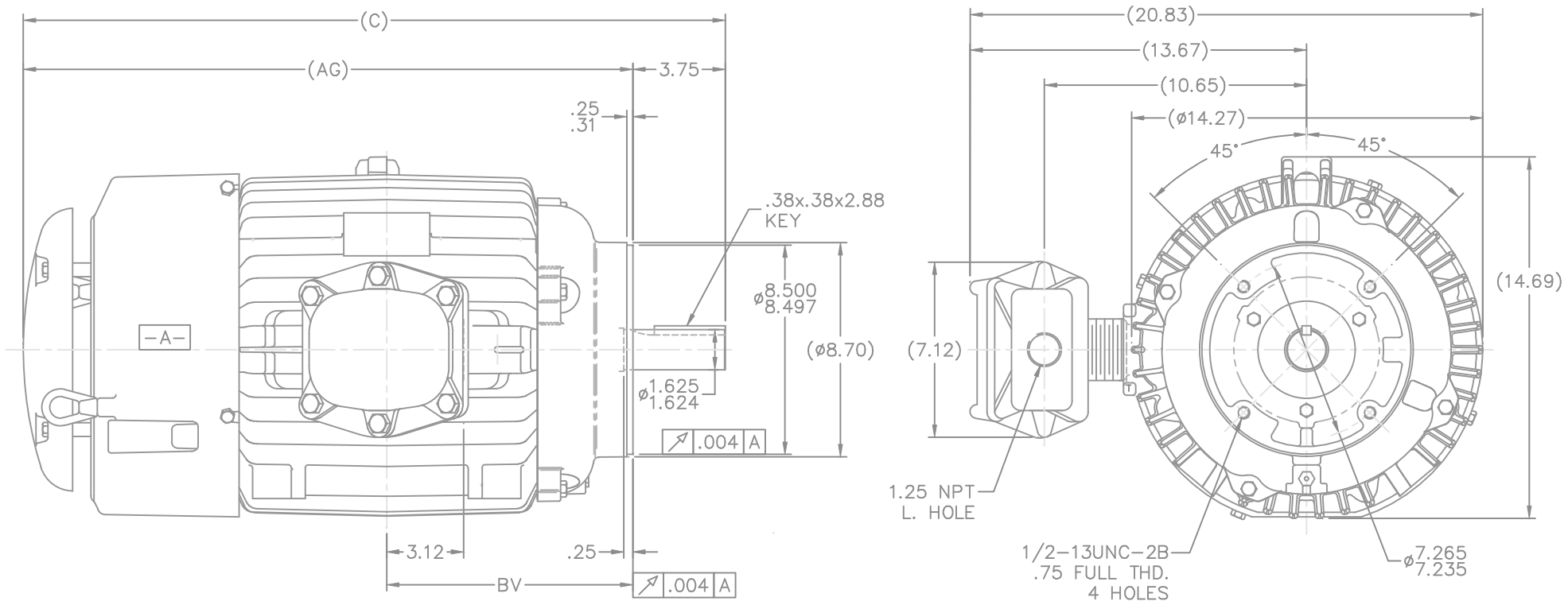
Model No: 254TTGN6047
Catalog No: 254TTGN6047
15,1800,EPFC,254TCV,3/60/230/460

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



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.

DASH	FRAME	C	AG	BV
1225	254-6TC	28.51	24.76	10.00

NO.	REVISION	BY & DATE	CHK
2	CLARIFIED COND BOX NOTE CN23925-37	MH 01-17-1997	
1	NEW DRAWING 4396594	BLR 06-19-1996	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

TITLE OUTLINE - TEFC
254-6TC FR. -BB -TS -'C' FACES

MAT'L. (208 HI MOTOR FRAME)

FINISH

DRAWN BLR 06-18-1996
CHK ML 06-18-1996
APPD BW 06-18-1996
SCALE 1=4
REF
FMF
PREV

RFP 06-18-1996
DIST LB
CAD FILE ss203118

SIZE B | DRAWING NO. SS203118 | PAGE OF | REV. 2

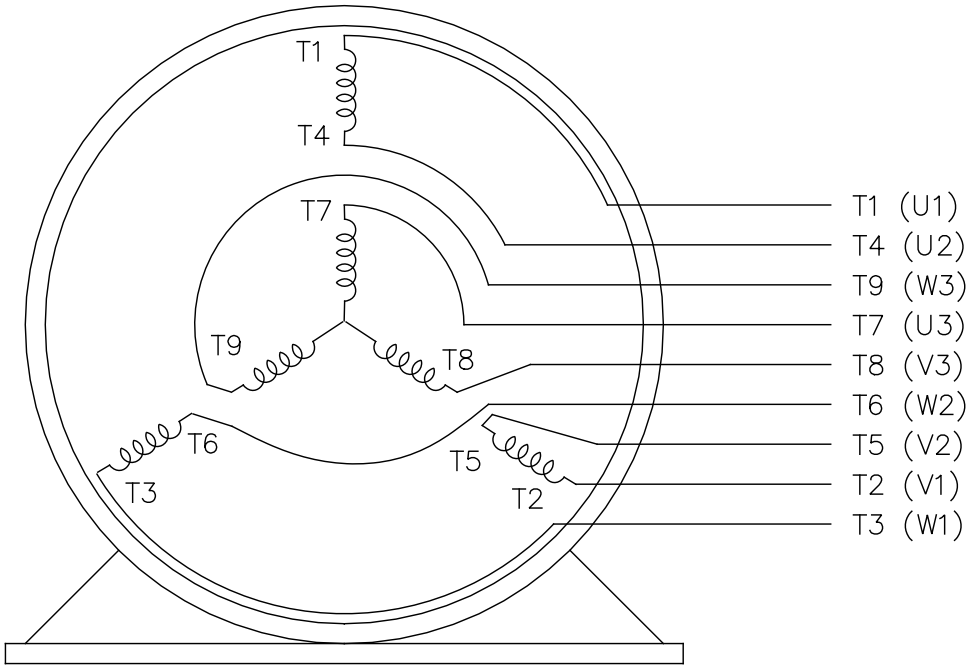
HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6

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		

TOLERANCES UNLESS OTHERWISE SPECIFIED

DEC.	mm	INCH	ANGLE
.X	±2.5	[±0.1]	±0.5°
.XX	±0.51	[±0.02]	
.XXX	±0.127	[±0.005]	
.XXXX	±0.0127	[±0.0005]	

REMOVE BURRS & BREAK SHARP EDGES .08/.38 [.003/.015] X 45°
CORNER FILLETS R.51 [.02]
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	SHEET
A	EE7308TP	1

Data Sheet

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

marathon® Motors

254TTGN6047

Submittal

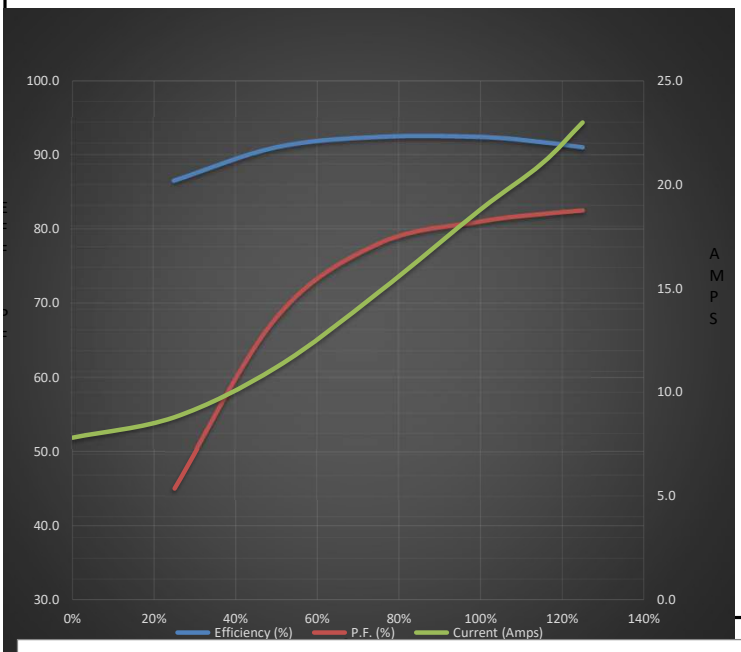
Data @ 460 V

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 wk²	2.40	Lb-Ft²
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