PRODUCT INFORMATION PACKET

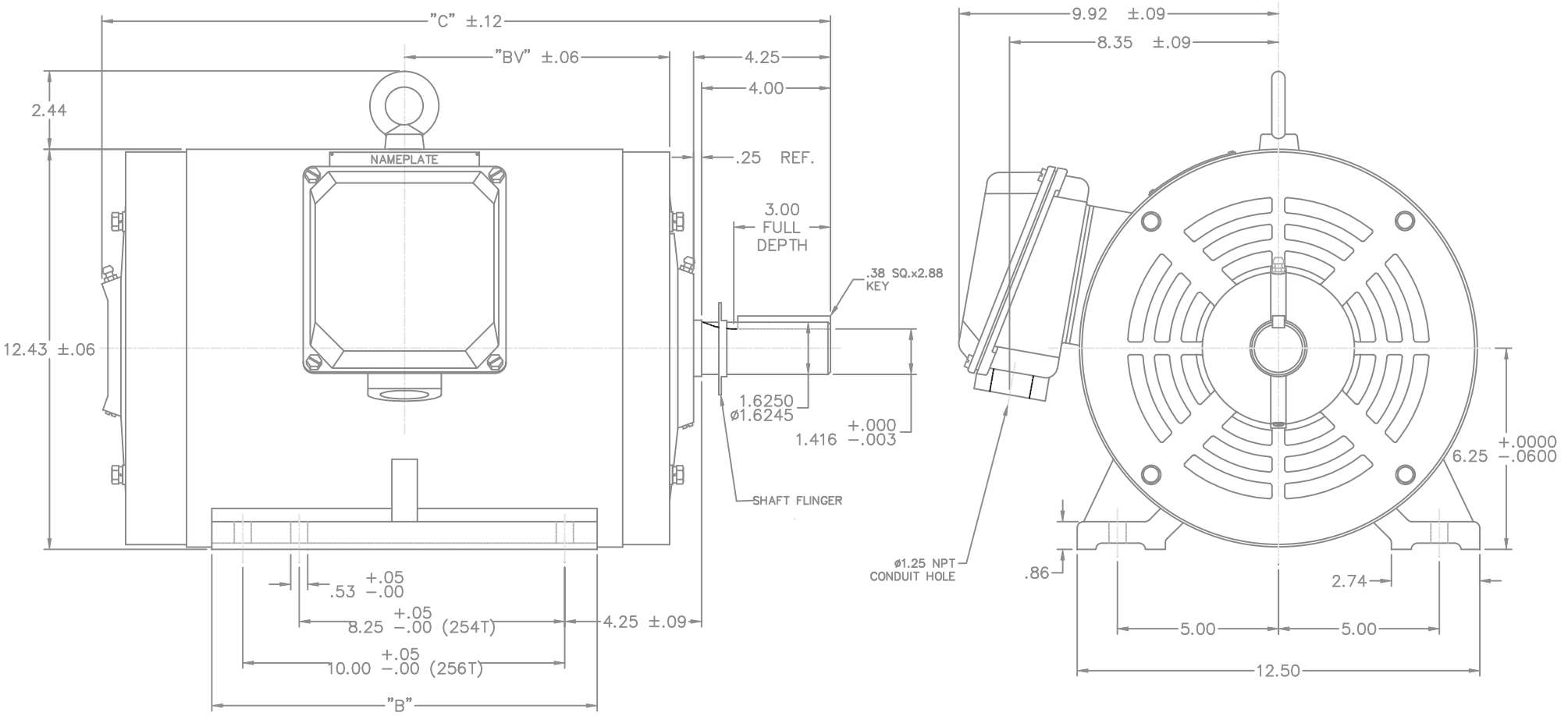
Model No: 254TTDC6076
Catalog No: U254
General Purpose Motor, 7.50 & 7.50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 200/400 V, 1200 & 1000 RPM, 254T Frame, DP

Nameplate Specifications

Phase	3	Output HP	7.50 & 7.50 Hp
Output KW	5.6 & 5.6 kW	Voltage	208-230/460 & 200/400 V
Speed	1185 & 990 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	23.4-22.4/11.2 & 23.4-22.4/11.2 A	Power Factor	68.1
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.935 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	20.94 in
Shaft Diameter	1.630 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	16955160ME-254T	Connection Drawing	004172-01ME



NOTE: 256T HAS 6 MTG. HOLES, USING BOTH 254T AND 256T "2F" LOCATIONS.

FRAME	"C"	"BV"	"B"
254T	20.94	8.23	10.25
256T	22.60	9.06	12.00

NO.	REVISION	BY & DATE	CHK
1	NEW DRAWING	CTO 05/21/02	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

TITLE: OUTLINE 250T FRAME
ODP, RIGID MOUNT, NEW CON-BOX

MAT'L. CAST IRON

FINISH

CAD FILE 16955160me

RFP

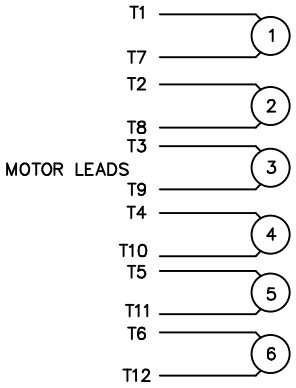
DIST

DRAWN	CTO 04-23-2002
CHK	ML 05-20-2002
APPD	SB 05-21-2002
SCALE	1=1.125
REF	
FMF	
PREV	

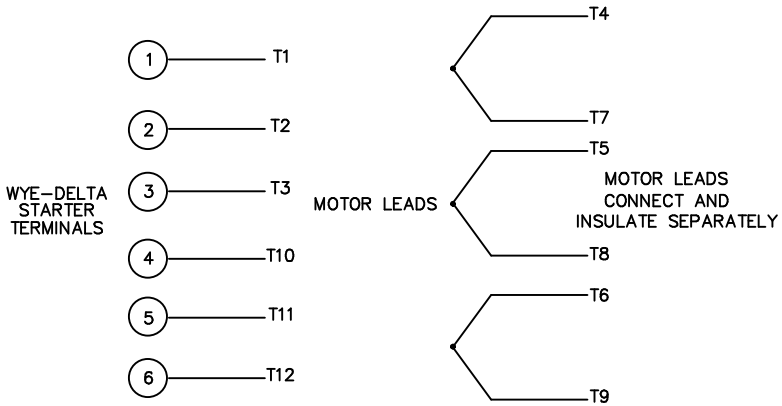
SIZE: B | DRAWING NO.: 169551-60ME | REV.: 1

WYE – DELTA STARTING USEABLE ON 2, 4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

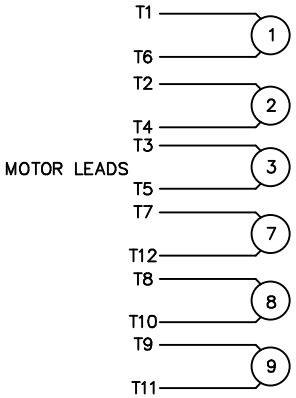


HIGH VOLTAGE CONNECTION



REFER TO THE WYE–DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

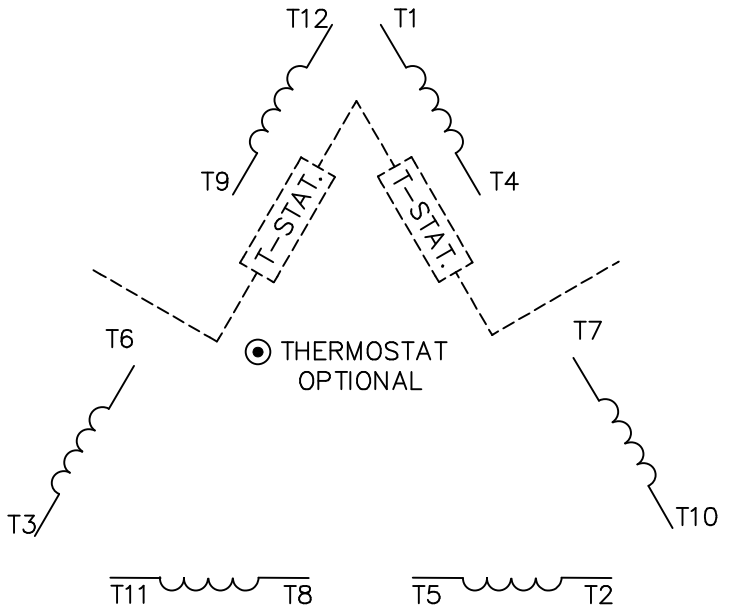
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER–HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

⦿ RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1,T12	T2,T10	T3,T11	(T4,T7) (T5,T8) (T6,T9)
LOW VOLT	T1,T6 T7,T12	T2,T4 T8,T10	T3,T5 T9,T11	

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

TITLE DELTA – WYE CONNECTION DIAGRAM

MAT'L.

FINISH

CAD FILE 004172-01ME

RFP 07-19-2007

DIST LB

DRAWN	RJW 07-19-2007
CHK	ML 07-19-2007
APPD	GK 07-19-2007
SCALE	1=1
REF	MU61151
FMF	
PREV	

SIZE A | DRAWING NO. 004172-01ME | PAGE 1 OF 1 | REV.

7/20/2007 8:14:43 AM -

CERTIFICATION DATA SHEET

Model#:	254TTDC6076 AA	**WINDING#:**	T12906007 DR 3
CONN. DIAGRAM:	004172-01ME	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	169551-60ME		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&7 1/2	5.6&5.6	1200	1185&990	254T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208-230/460#200/400	23.4-22.4/11.2	ACROSS THE LINE	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 92.4	3/4 LOAD EFF: 92	1/2 LOAD EFF: 90.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 68.1	3/4 LOAD PF: 61.4	1/2 LOAD PF: 50.2	92	SQ CAGE IND RUN	12 / 6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
33.2 LB-FT	118 / 59	52.4 LB-FT 158	102 LB-FT 307	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
67 dBA	77 dBA	- LB-FT^2	- LB-FT^2	- SEC.	-	281 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6208	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/23/2017 02:28:16 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 12/14/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

254TTDC6076

Submittal

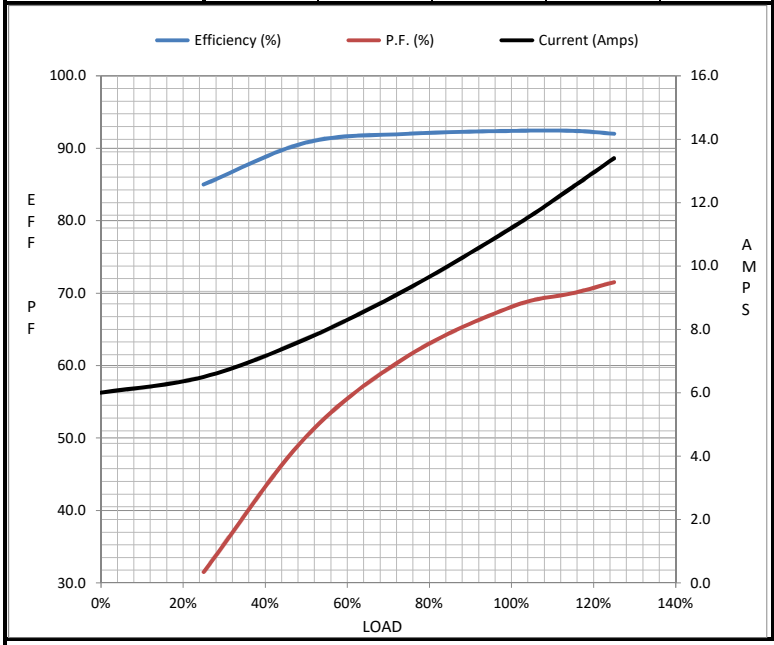
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.0	6.5	7.7	9.3	11.2	12.5	13.4	59.0	
Torque (ft-lb)	0.00	8.2	16.5	24.8	33.2	38.3	41.6	52.4	
RPM	1200	1196	1193	1190	1185	1,184	1183	0	
Efficiency (%)		85.0	90.8	92.0	92.4	92.4	92.0		
P.F. (%)	4.5	31.5	50.2	61.4	68.1	70.0	71.5	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1130	1185	1200
Current (Amps)	59.0	53.0	36.2	11.2	6.0
Torque (ft-lb)	52.4	47.0	102	33.2	0.00



Information Block

HP	7.5
Sync. RPM	1200
Frame	254
Enclosure	DP
Construction	TDS
Voltage	208-230/460#200/400 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	25 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	T12906007 DR
Sound Pressure @ 1M	67 dBA
VFD Rating	NONE
Outline Dwg	169551-60ME
Conn. Diag	004172-01ME
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve