PRODUCT INFORMATION PACKET

Model No: 256TTFC6077
Catalog No: U642A
XRI® General Purpose General Purpose Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM, 256T Frame, TEFC

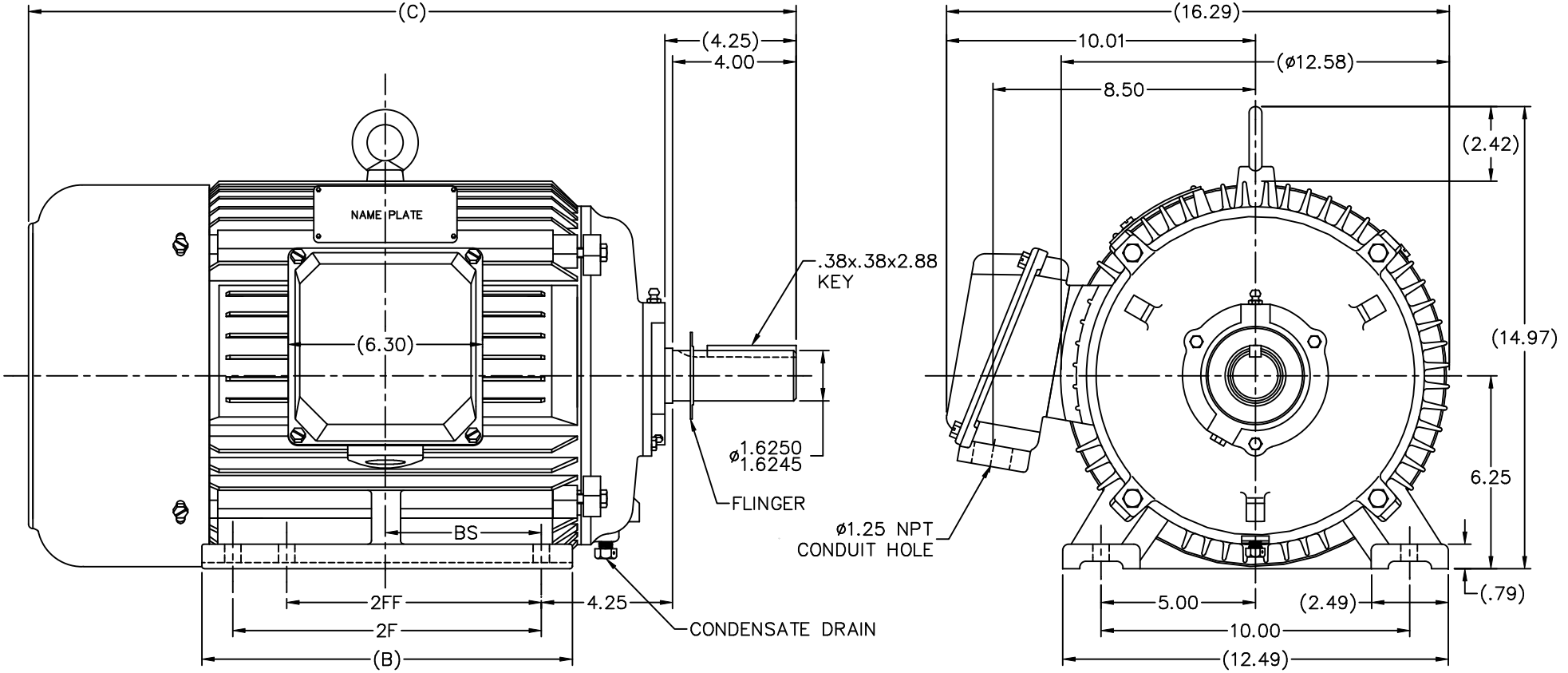
marathon® Motors

Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	1183 & 985 rpm	Service Factor	1.15 & 1.15
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	28.8/14.4 & 26.8/13.4 A	Power Factor	71.4
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6308
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.766 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	24.92 in
Shaft Diameter	1.625 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	16953860ME-256T	Connection Drawing	00417203ME



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

DASH	FRAME	C	BS	B	2F	2FF
1248	254T	23.19	6.24	3.94	––	8.25
1398	256T	24.92	5.49	4.81	10.00	8.25

NO.	REVISION	BY & DATE	CHK
1	NEW DRAWING	TJB 05-29-2003	ML

TOLERANCES UNLESS SPECIFIED

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

MARATHON ELECTRIC

TITLE OUTLINE – RIGID
250 FR. – TEFC

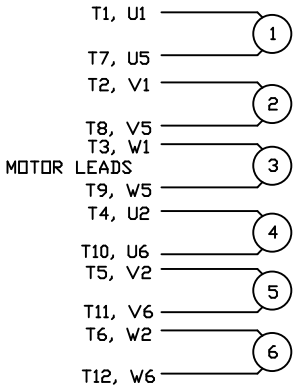
MAT'L.
FINISH
CAD FILE 16953860ME
RFP
DIST WA

DRAWN TJB 05-29-2003
CHK ML 05-29-2003
APPD GK 05-29-2003
SCALE 5=16
REF
FMF
PREV

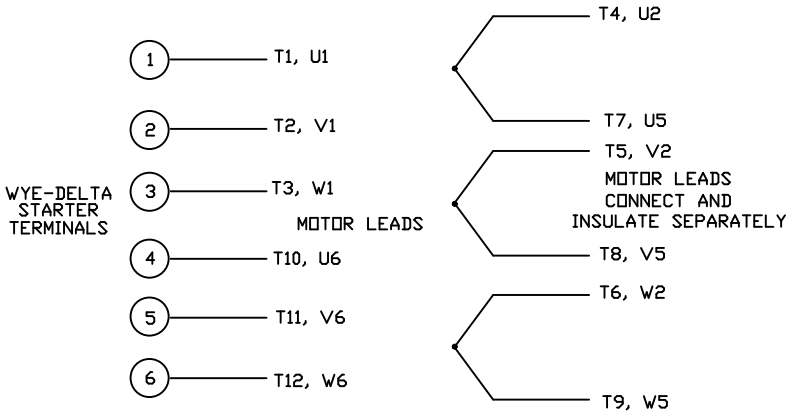
SIZE B | DRAWING NO. 169538–60ME | PAGE OF | REV. 1

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

LOW VOLTAGE CONNECTION

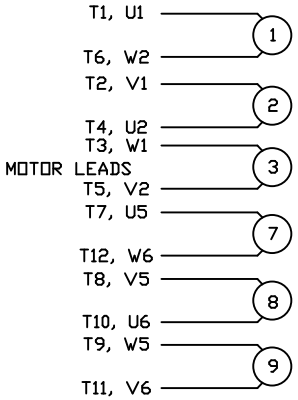


HIGH VOLTAGE CONNECTION



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

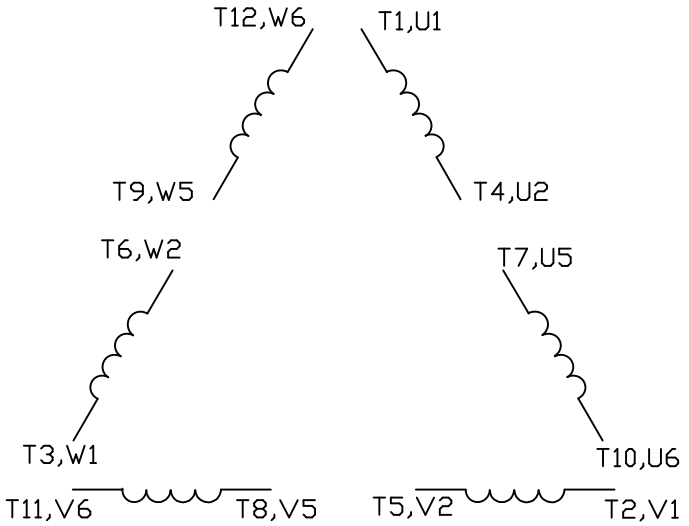
PART WINDING START USABLE ON 4 & 6 POLE MOTORS LOW VOLTAGE CONNECTION ONLY



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.

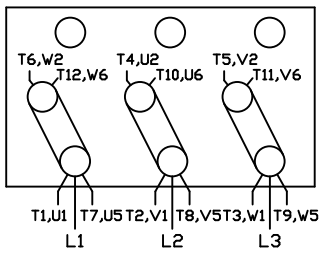
LINE LEADS



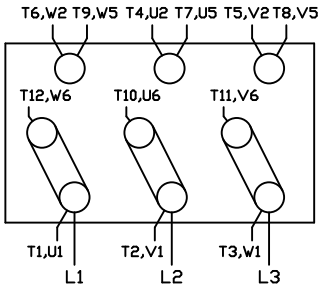
ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

12 LEAD DELTA CONNECTION ACROSS THE LINE START (FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE (MUST BE REWIRED AS SHOWN)



HIGH VOLTAGE (FACTORY WIRED FOR HIGH VOLTAGE AS SHOWN)



NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

DRAWN CJW 08/28/02
CHK
APPD
TITLE DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS
SCALE 1=1
REF
MAT'L.
FMF
FINISH
PREV

RFP
DIST
CAD FILE 00417203ME
SIZE A
DRAWING NO. 004172-03ME
REV.

6/28/2007 3:22:33 PM -

CERTIFICATION DATA SHEET

Model#:	256TTFC6077 AA	**WINDING#:**	T12906015 NONE 3
CONN. DIAGRAM:	00417203ME	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	169538.60ME		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	1200	1183&985	256T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	28.8/14.4&26.8/13.4	ACROSS THE LINE	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 71.4&73.6	**3/4 LOAD PF: 65.7**	**1/2 LOAD PF: 54.7**	91	SQ CAGE IND RUN	14.4 / 7.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.3 LB-FT	160.4 / 80.2	83.2 LB-FT 185	105 LB-FT 234	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	3.559 LB-FT^2	3.6 LB-FT^2	15 SEC.	2	- 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 6308	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 06:44:30 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 20-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

256TTFC6077

Submittal

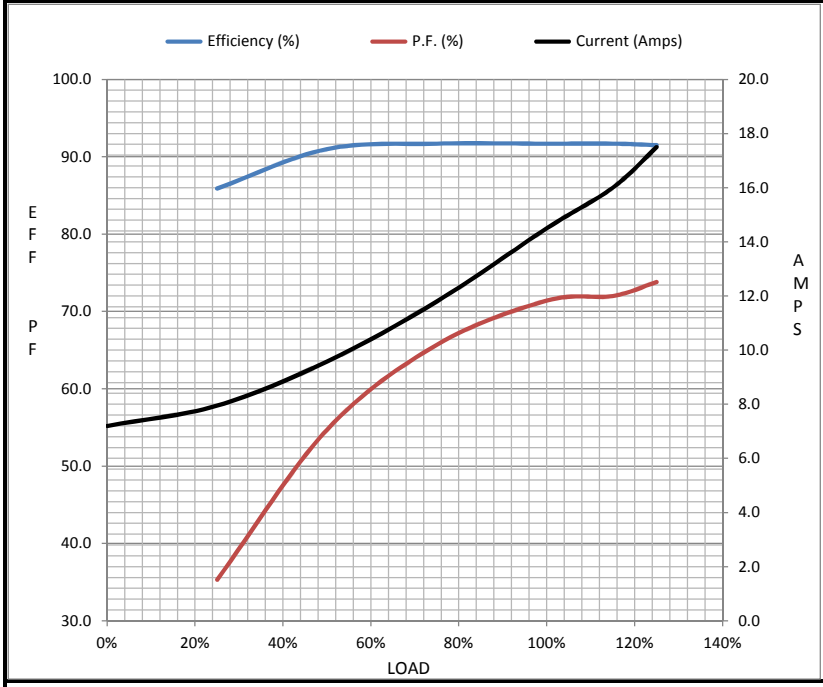
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.2	8.0	9.6	11.8	14.5	16.0	17.5	80.2	
Torque (ft-lb)	0.00	11.3	22.5	33.8	44.3	51.0	56.3	83.2	
RPM	1200	1196	1192	1188	1185	1,180	1177	0	
Efficiency (%)		85.9	91.0	91.7	91.7	91.7	91.5		
P.F. (%)	11.2	35.3	54.7	65.7	71.4	72.0	73.8	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1185	1200
Current (Amps)	80.2	75.0	10.5	14.5	7.2
Torque (ft-lb)	83.2	71.5	105	44.3	0.00



Information Block

HP	10.0
Sync. RPM	1200
Frame	256
Enclosure	TEFC
Construction	TFC
Voltage	230/460#190/38(V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	38 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	3.6 Lb-Ft²
Ref Wdg	T12906015 NONE
Sound Pressure @ 1M	999 dBA
VFD Rating	NONE
Outline Dwg	169538.60ME
Conn. Diag	00417203ME

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve