PRODUCT INFORMATION PACKET

Model No: 250MTFC4586
Catalog No: R350
Cast Iron Motor, 50 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 250M Frame, TEFC

marathon® Motors

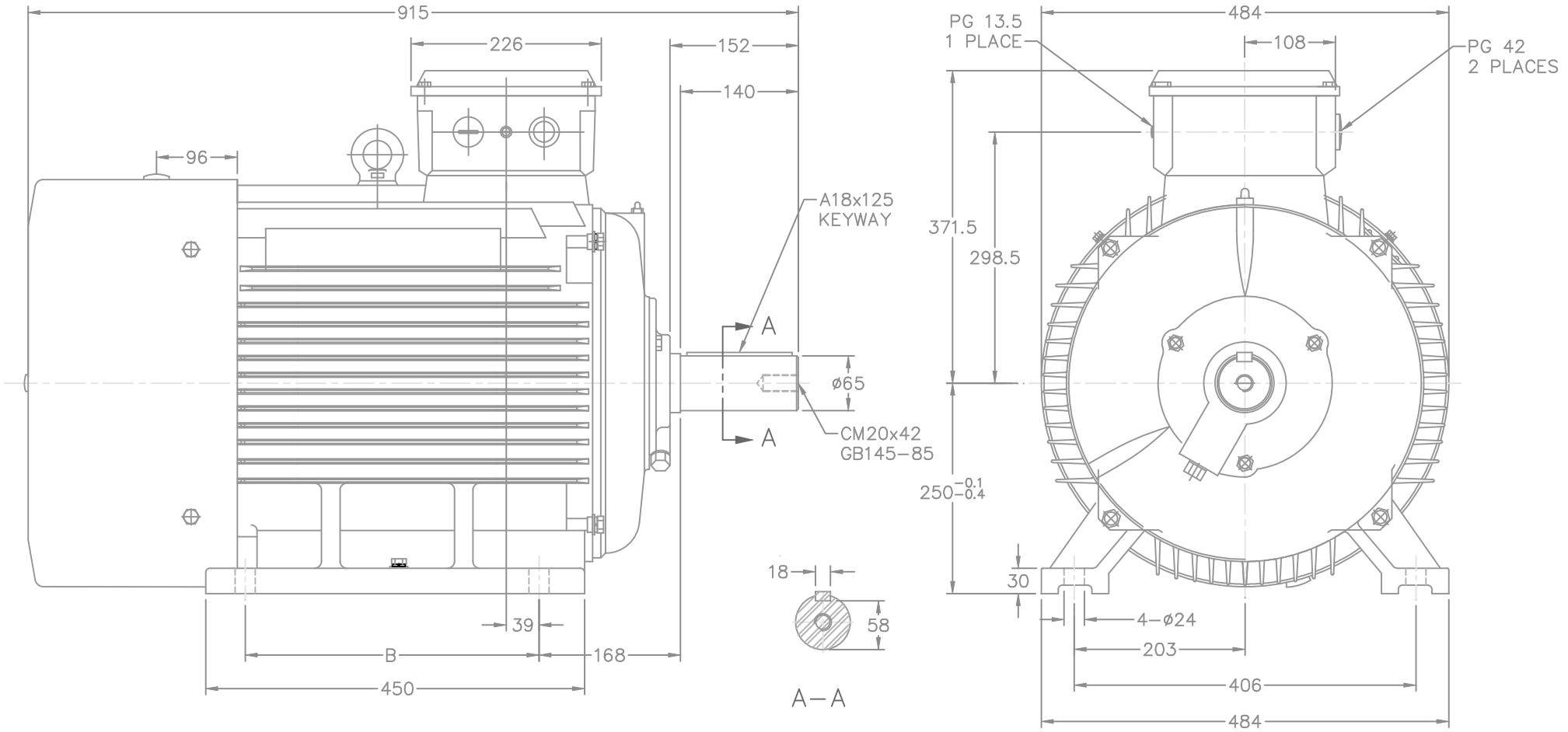
Nameplate Specifications

Phase	3	Output HP	50 & 50 Hp
Output KW	37.0 & 37.0 kW	Voltage	230/460 & 200/400 V
Speed	1185 & 985 rpm	Service Factor	1.15 & 1.15
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	117/58.5 & 134/67 A	Power Factor	85.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.138 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	36.02 in
Shaft Diameter	2.555 in	Shaft Extension	5.51 in
Assembly/Box Mounting	F3		
Connection Drawing	00417203ME	Outline Drawing	SS620007

SS620007



ALL DIMENSIONS TO BE REF. DIMENSION.

FRAME	B	
250M	349	

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	METRIC
.X	±2.5
.XX	±.76
.XXX	±.127
.XXXX	±.0127
ANG	±7'30"

MARATHON ELECTRIC

TITLE OUTLINE – IEC 250 FR.

MAT'L.

FINISH

RFP

CAD FILE SS620007

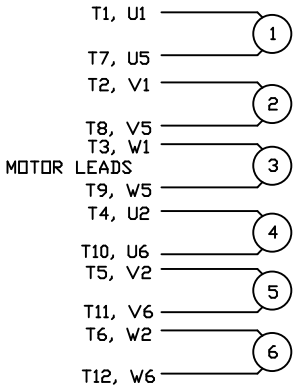
DIST WA

DRAWN	CTO 10–14–2004
CHK	ML 10–21–2004
APPD	SB 10–21–2004
SCALE	1=4.5
REF	
FMF	
PREV	

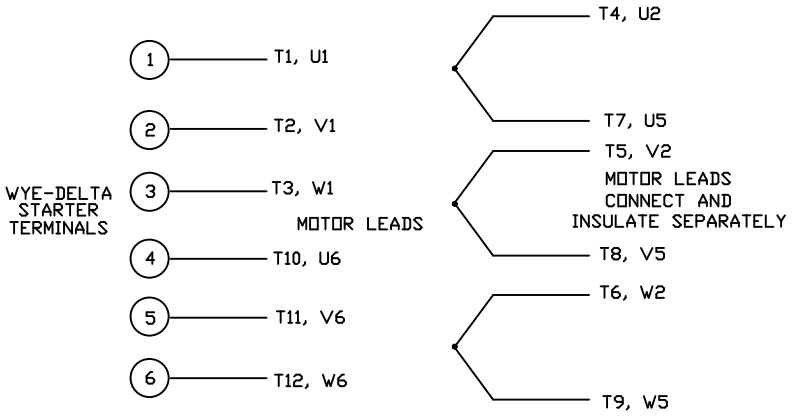
SIZE	DRAWING NO.	PAGE OF	REV.
B	SS620007		

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

LOW VOLTAGE CONNECTION

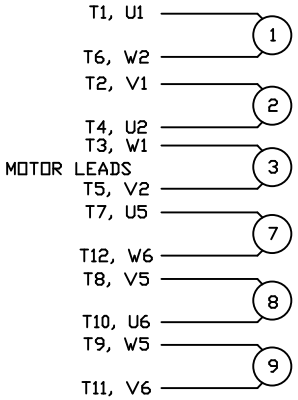


HIGH VOLTAGE CONNECTION



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

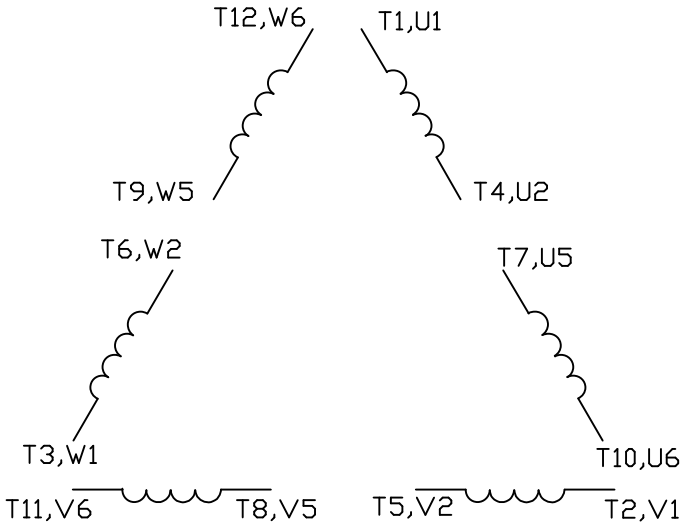
PART WINDING START USABLE ON 4 & 6 POLE MOTORS LOW VOLTAGE CONNECTION ONLY



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.

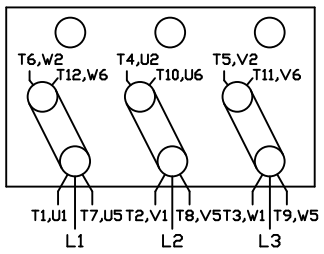
LINE LEADS



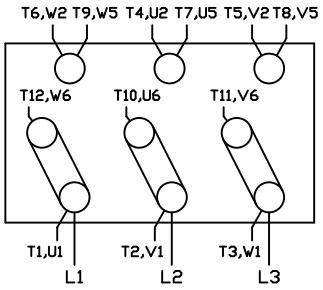
ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

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)



				TOLERANCES UNLESS SPECIFIED			
				DEC.	INCHES	MARATHON ELECTRIC	DRAWN CJW 08/28/02
				.X	±.1		CHK
				.XX	±.01		APPD
				.XXX	±.005	TITLE DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS	SCALE 1=1
				.XXXX	±.0005		REF
						MAT'L.	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PREV

RFP

DIST

CAD FILE 00417203ME

SIZE A

DRAWING NO. 004172-03ME

REV.

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