

PRODUCT INFORMATION PACKET



Model No: 180LTFC4588

Catalog No: R338

Cast Iron Motor, 20 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 180L Frame,
TEFC

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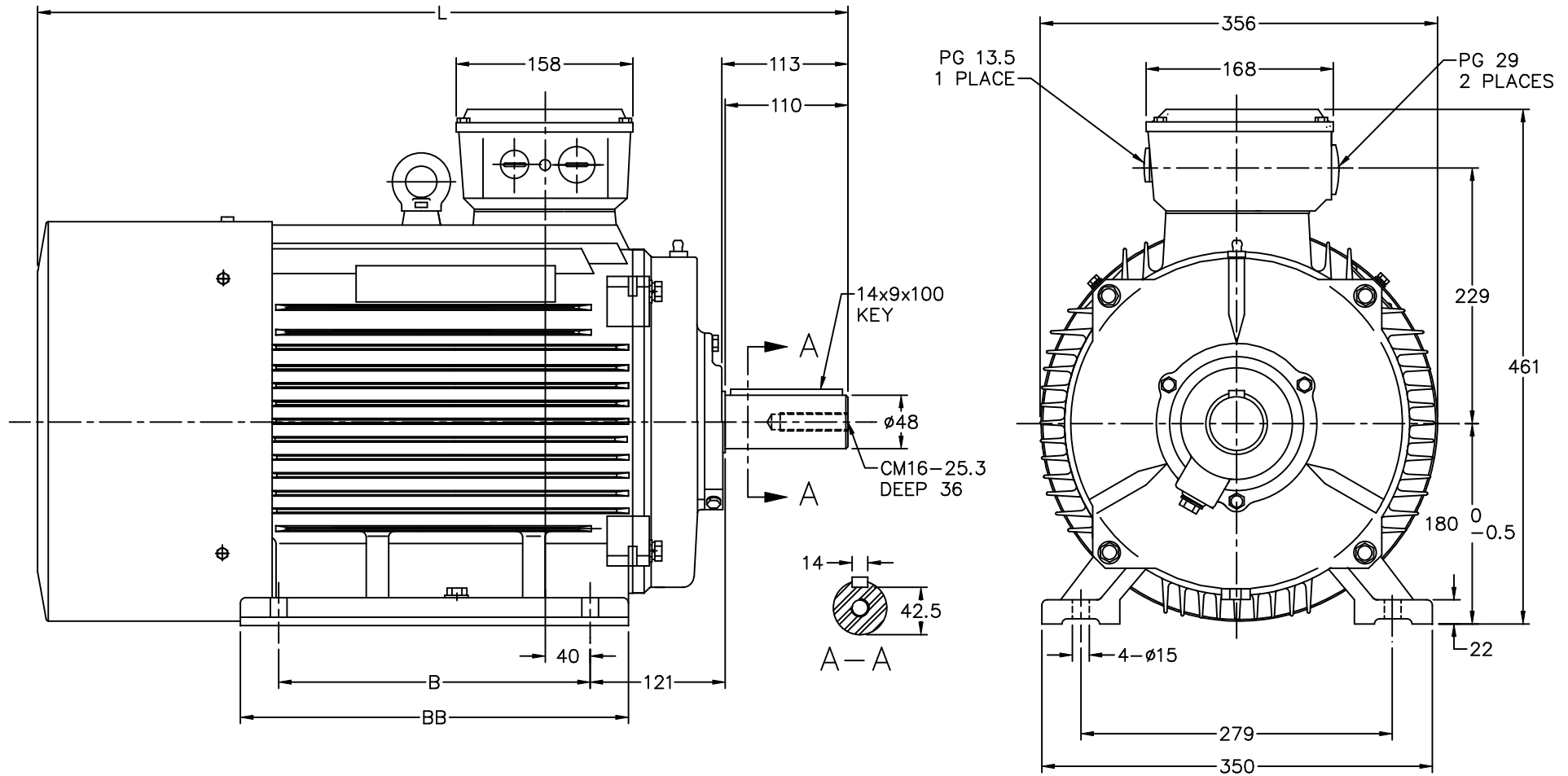
Nameplate Specifications

Phase	3	Output HP	20 & 20 Hp
Output KW	14.9 & 14.9 kW	Voltage	230/460 & 200/400 V
Speed	1180 & 970 rpm	Service Factor	1.15 & 1.0
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	90.2 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	51/25.5 & 58/29 A	Power Factor	81.5
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	J
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6311
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	.455 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	28.58 in
Shaft Diameter	1.888 in	Shaft Extension	4.33 in
Assembly/Box Mounting	F3		
Outline Drawing	SS620011-180L	Connection Drawing	00417203ME

SS620011



ALL DIMENSIONS TO BE REF.
DIMENSION.

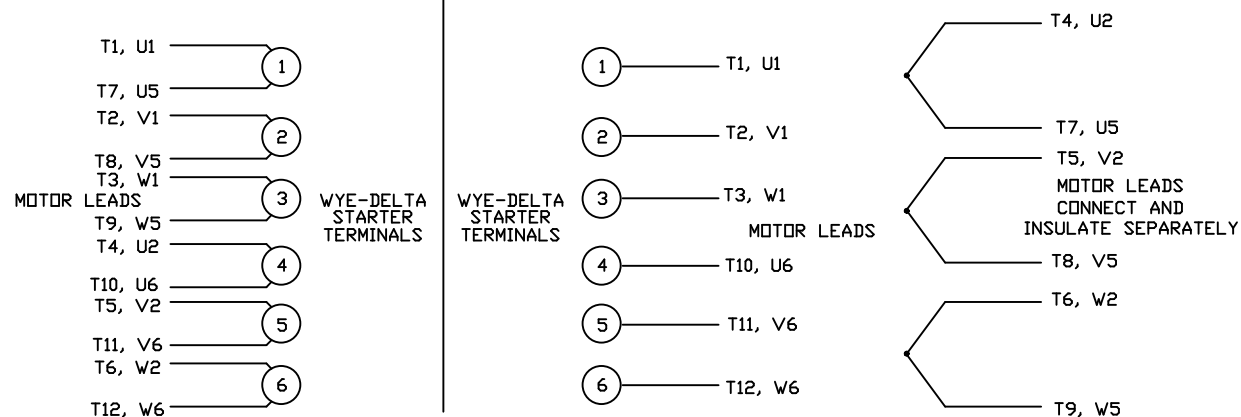
FRAME	L	B	BB
180M	688	241	311
180L	726	279	348

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN CTO 10-14-2004	
DEC.	METRIC	DEC.	METRIC		CHK	ML
.X	± 2.5	.XX	$\pm .76$	TITLE OUTLINE - IEC 180 FR.	APPD	SB
.XXX	$\pm .127$.XXX	$\pm .0127$		SCALE	9-32
.XXXX	$\pm .0127$.XXXX	$\pm .0127$	MAT'L	REF	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV
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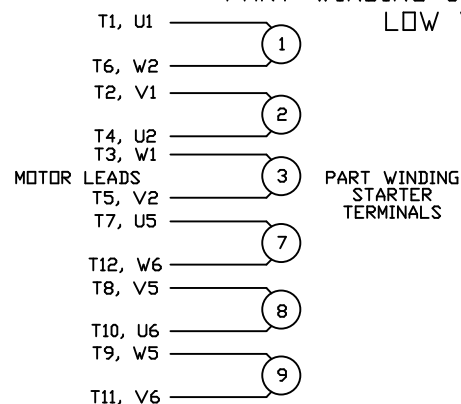
WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



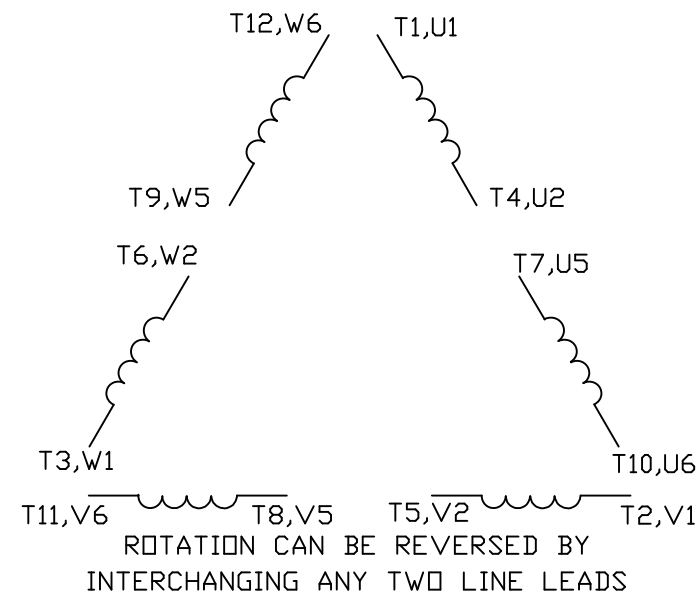
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

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.

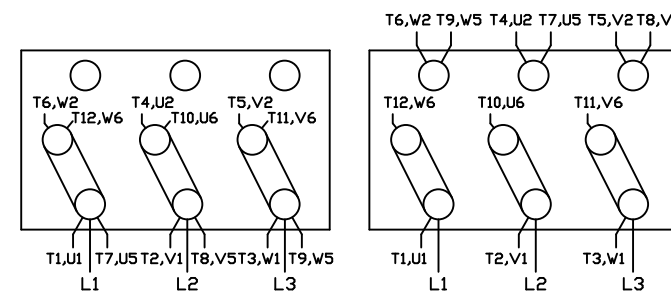
LINE LEADS



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

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2°



**MARATHON
ELECTRIC**

TITLE DELTA - WYE CONNECTION DIAGRAM
IEC CAST IRON MOTORS

MAT'L.

FINISH

DRAWN CJW 08/28/02

CHK

APPD

SCALE 1=1

REF

FMF

PREV

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