

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256TTFC6002

Catalog No: U649A

XRI® General Purpose General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 256T Frame, TEFC



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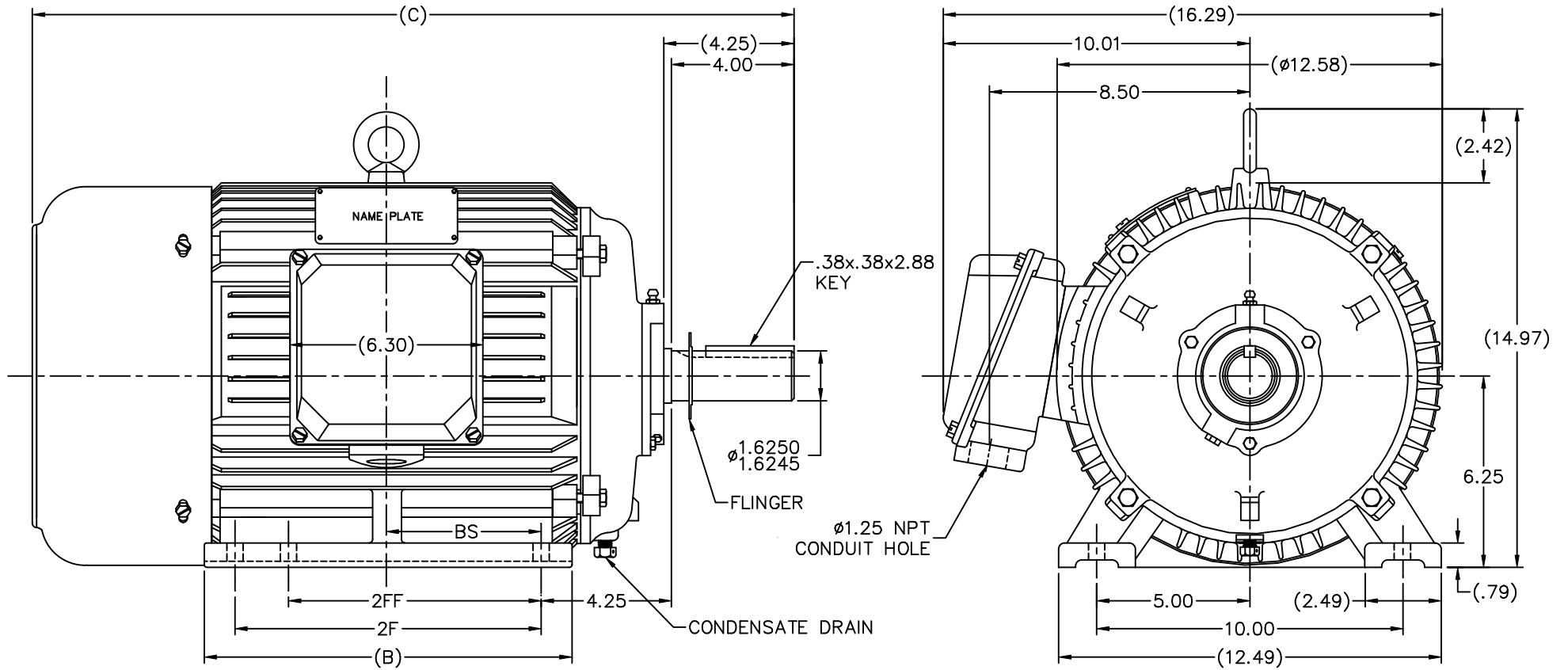
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	3550 & 2957 rpm	Service Factor	1.15 & 1.15
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.4 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	46/23 & 40/20 A	Power Factor	88.5
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	2	Rotation	Reversible
Resistance Main	.295 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	004172.03ME



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

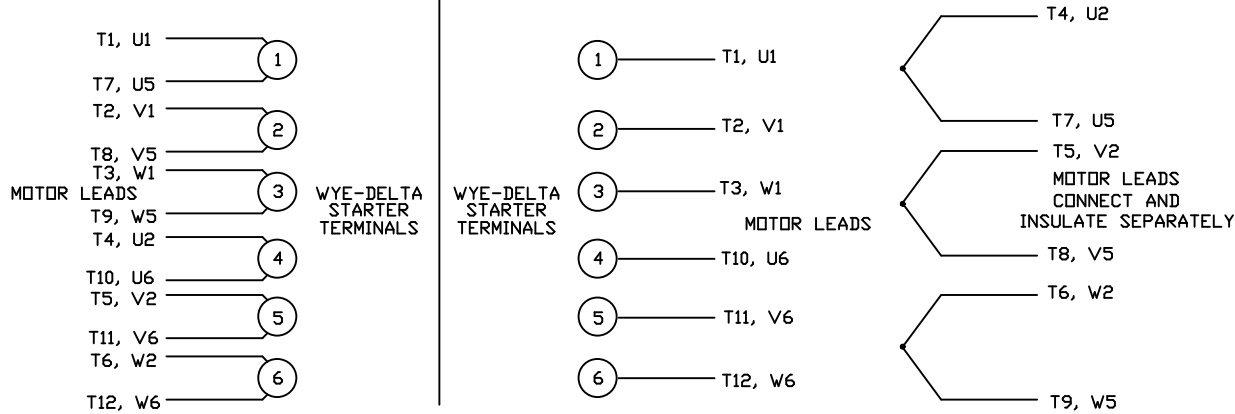
DASH	FRAME	C	BS	B	2F	2FF
1248	254T	23.19	6.24	3.94	--	8.25
1398	256T	24.92	5.49	4.81	10.00	8.25

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN TJB 05-29-2003	
		DEC.	INCHES			CHK	ML 05-29-2003
		.X	±.1			APPD	GK 05-29-2003
		.XX	±.03	TITLE OUTLINE - RIGID		SCALE 5=16	
		.XXX	±.005	250 FR. - TEFC		REF	
1	NEW DRAWING	TJB	05-29-2003	ML	.XXXX	±.0005	MAT'L
NO.		REVISION		BY & DATE		CHK	ANG ±7'30"
		THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT		RFP	CAD FILE 16953860ME		FINISH
				DIST	WA	SIZE	DRAWING NO. PAGE OF REV.
						B	169538-60ME 1

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

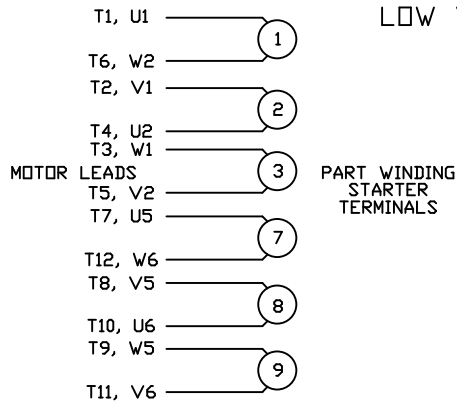
LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



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

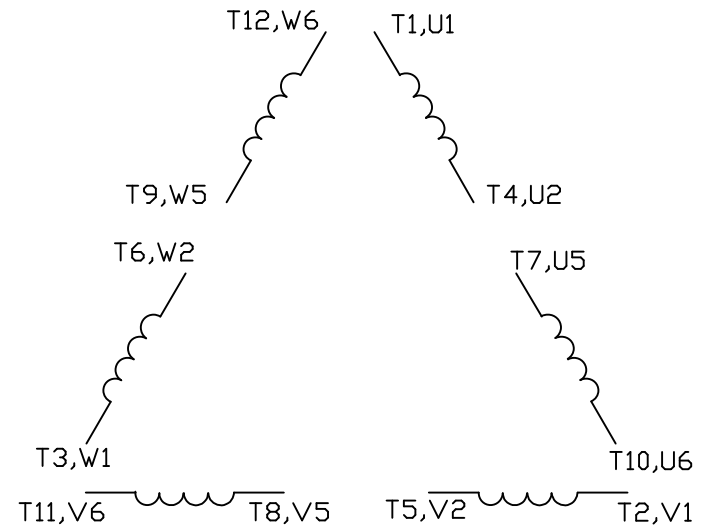
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



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

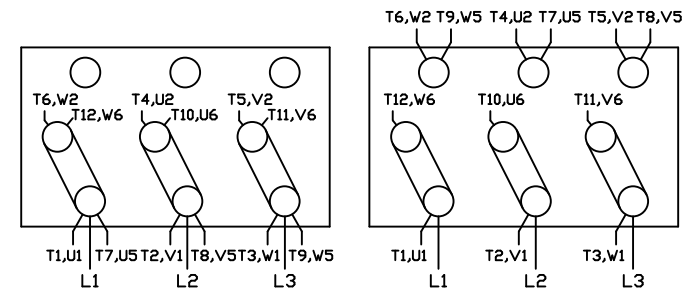


ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

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)



TOLERANCES UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2*



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

NO. REVISION BY & DATE

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RFP

DIST

CAD FILE 00417203ME

SIZE DRAWING NO.

A 004172-03ME

REV.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



256TTC6002

Submittal

Data @ 460 V

Motor Load Data

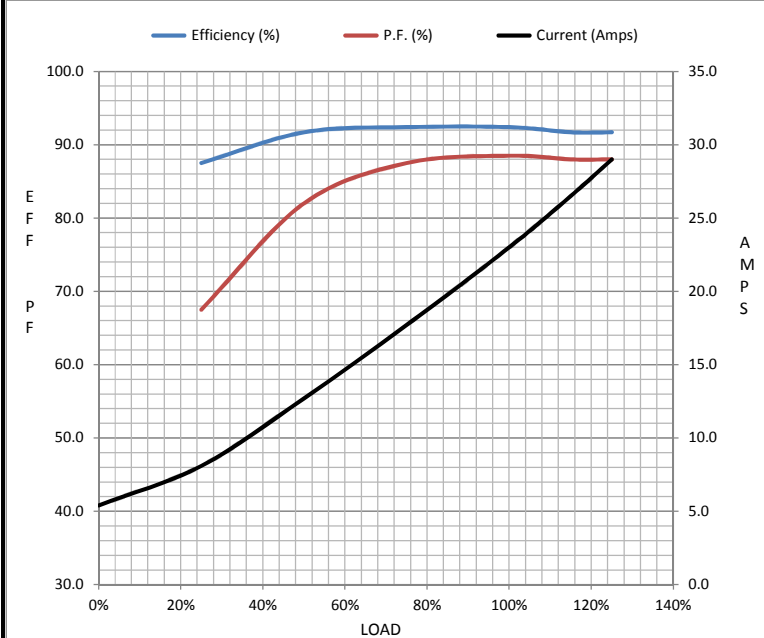
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.4	8.1	12.7	17.7	23.0	26.5	29.0	145
Torque (ft-lb)	0.00	7.5	15.0	22.5	30.0	34.5	37.5	75.0
RPM	3600	3590	3578	3565	3550	3,545	3540	0
Efficiency (%)		87.5	91.7	92.4	92.4	91.7	91.7	
P.F. (%)	10.0	67.5	82.0	87.5	88.5	88.0	88.0	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3550	3600
Current (Amps)	145	130	95.0	23.0	5.4
Torque (ft-lb)	75.0	67.5	81.5	30.0	0.00

Information Block

HP	20.0			
Sync. RPM	3600			
Frame	256			
Enclosure	TEFC			
Construction	TFC			
Voltage	30/460#190/381V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	2.00 Lb-Ft ²			
Ref Wdg	T12902023 NONE			
Sound Pressure @ 1M	69 dBA			
VFD Rating	NONE			
Outline Dwg	169538.60ME			
Conn. Diag	004172.03ME			
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

