

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 404TTFS16103
Catalog No: L426A
50,900,TEFC,404T,3/60/460
Totally Enclosed Fan Cooled (TEFC)



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REGAL

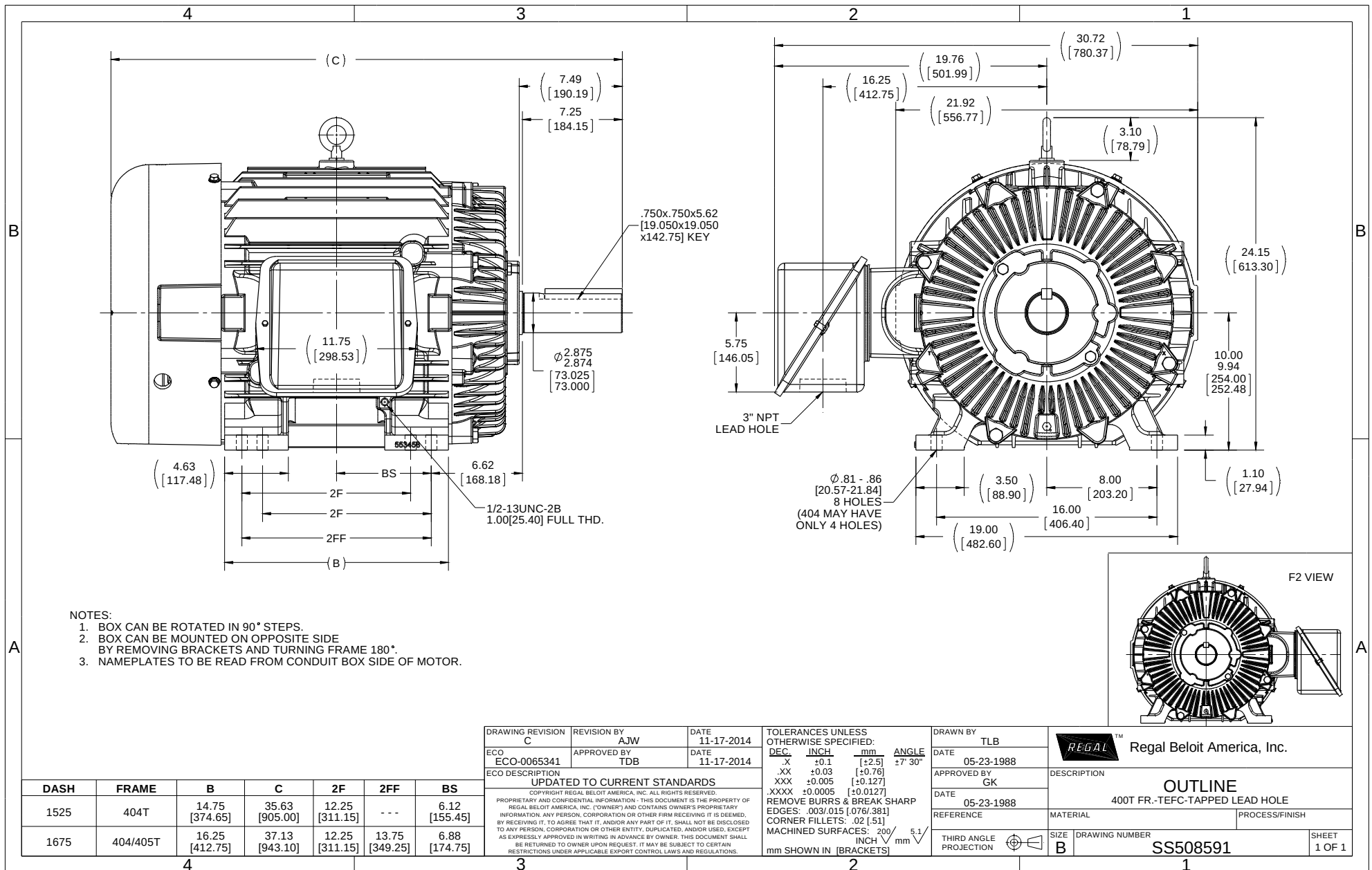


Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	460 V
Current	66.0 A	Speed	890 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	404T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6316
Opp Drive End Bearing Size	6313	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

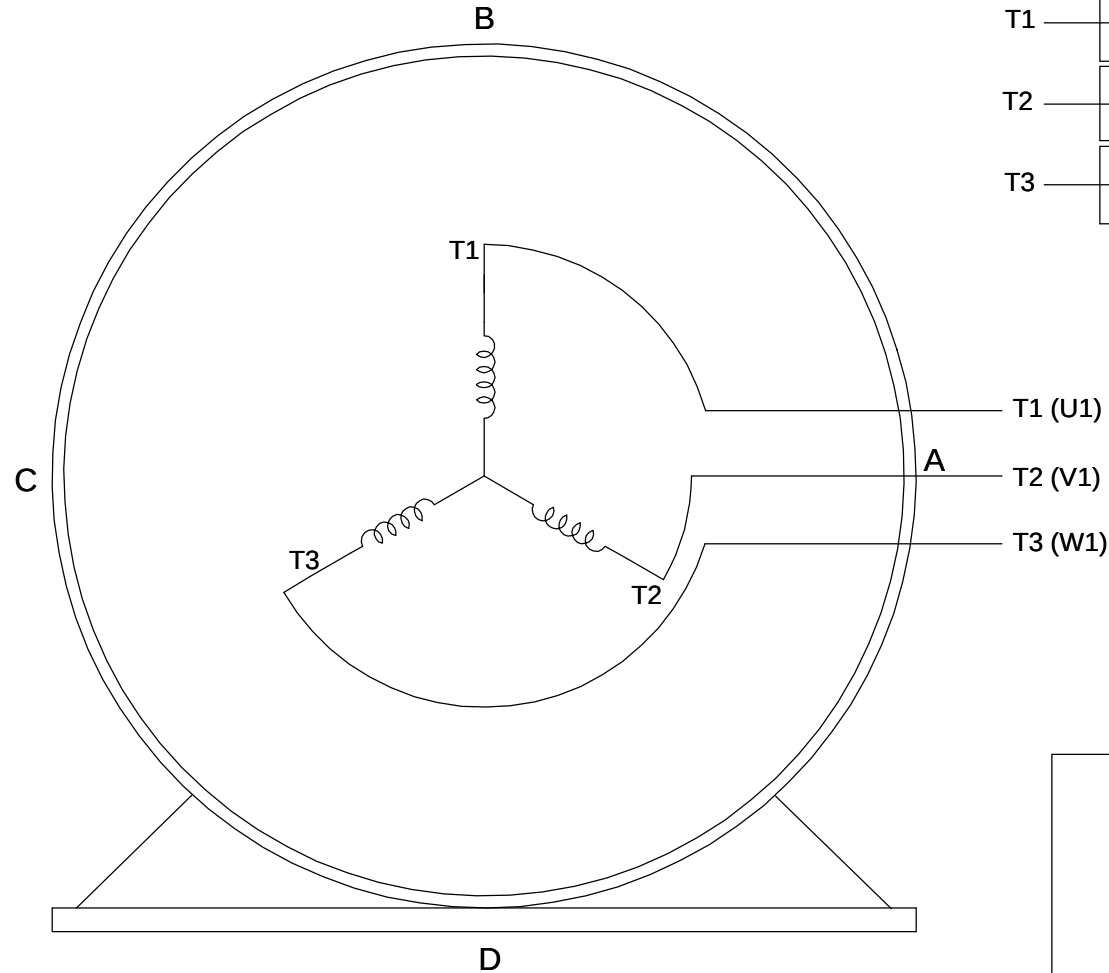
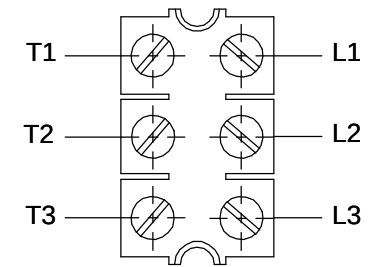
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	8	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	37.13 in	Frame Length	16.75 in
Shaft Diameter	2.875 in	Shaft Extension	7.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS508591-1675	Connection Diagram	A-EE7300



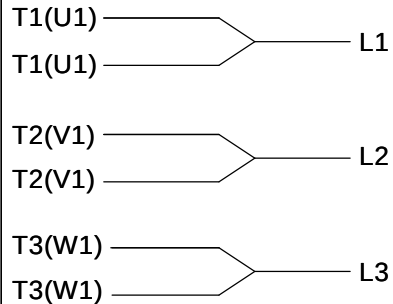
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED

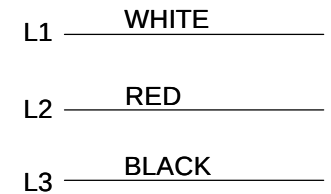


IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION



VIEW OF TERMINAL END

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION



Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1
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DATA VOLTS: 460

CUSTOMER:		CUSTOMER P.O. #:	
ORDER #:		REFERENCE MODEL #:	404TTFS16103
CONN. DIAGRAM:	A-EEF7300	CAT #:	L426A
OUTLINE:	B-SS08581-1675	CUSTOMER PART #:	
WINDING:	T404816	MOUNTING:	F1/F2 CAPABLE
SPEED:			

	KW	SYNCRPM	FLRPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
HP	37	900	890	40AT	TFFC	TFS	G	B
50								

P.H.	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460/380	668.63	LINE OR INVERTER	CONT	F	1.15	40	3300
F.L. EFF	93.6	3/4 LD EFF	93.6	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE		
F.L. PF	75.5	3/4 LD PF	72.0	1/2 LD PF	62.0	93.0	SQ CAGE INV RATED		
F.L. TORQUE	LR AMPS @ 480 V			L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)	
295 LB-FT	350			515 LB-FT	175%	625 LB-FT	212%	72	
@3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT			
62 dBA	71 dBA	36.5 LB-FT ²	0 LB-FT ²	20 SEC.	0	1200 LB.			

ODE BRACKET		MOUNT		MOTOR ORIENTATION		SEVERE DUTY		HAZARDOUS LOCATION		DRIIP COVER		SCREENS		PAINT	
TYPE		TYPE		ORIENTATION		DUTY		LOCATION		COVER		SCREENS		PAINT	
STANDARD		RIGID		HORIZONTAL		NO		NONE		NO		NONE		BLUE (ENAMEL)	

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6316	6313						

[illegible]

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	Float
0.082	0.051	0.449	0.807	7.9	0.150	ODE

[illegible]

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

HZ:

Data Sheet

Date: 9/11/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA



404TFS16103

Submittal

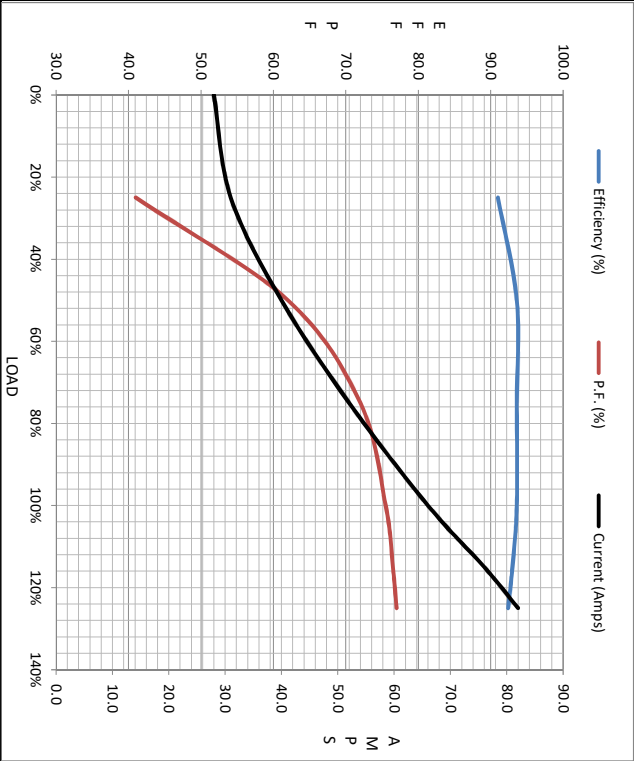
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	28.0	31.0	40.0	52.0	66.0	76.0	82.0	350
Torque (ft-lb)	0.00	73.0	147	221	295	340	370	515
RPM	900	898	895	892	890	888	885	0
Efficiency (%)		91.0	93.6	93.6	93.6	93.0	92.4	
P.F. (%)	4.0	41.0	62.0	72.0	75.5	76.5	77.0	35.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	450	850	890	900	HP	50.0
Current (Amps)	350	300	200	66.0	28.0	Sync. RPM	900
Torque (ft-lb)	515	425	625	295	0.00		



Frame	404182TFC6080			
Enclosure	TEFC			
Construction	TFS			
Voltage	460/380		V	
Frequency	60		Hz	
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	72		°C	
Duty	CONT			
Ambient	40		°C	
Elevation	1,000		feet	
Rotor/Shaft wk²	36.5		Lb-Ft²	
Ref Wdg	T404816 NONE			
Sound Pressure @ 1M	62		dBA	
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS508591-1675			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0920	0.0510	0.4490	0.8070	7.9000

Speed - Torque Curve

