

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 254TTFL16038
Catalog No: U646B
15,1800,TEFC,254T,3/60/200
Totally Enclosed Fan Cooled (TEFC)



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REGAL

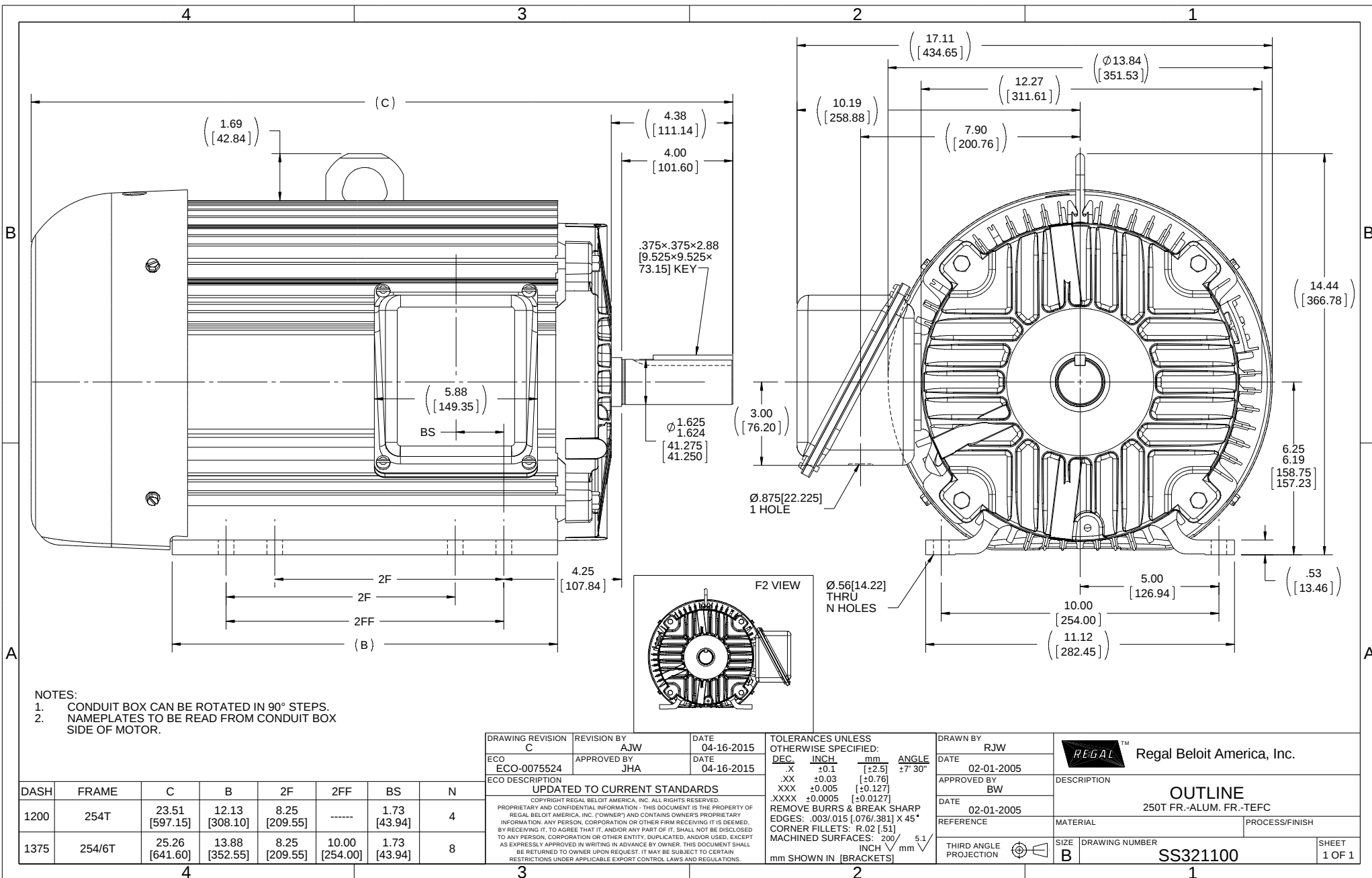


Nameplate Specifications

Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	200 V
Current	43.5 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	92.4 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	254T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6208	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

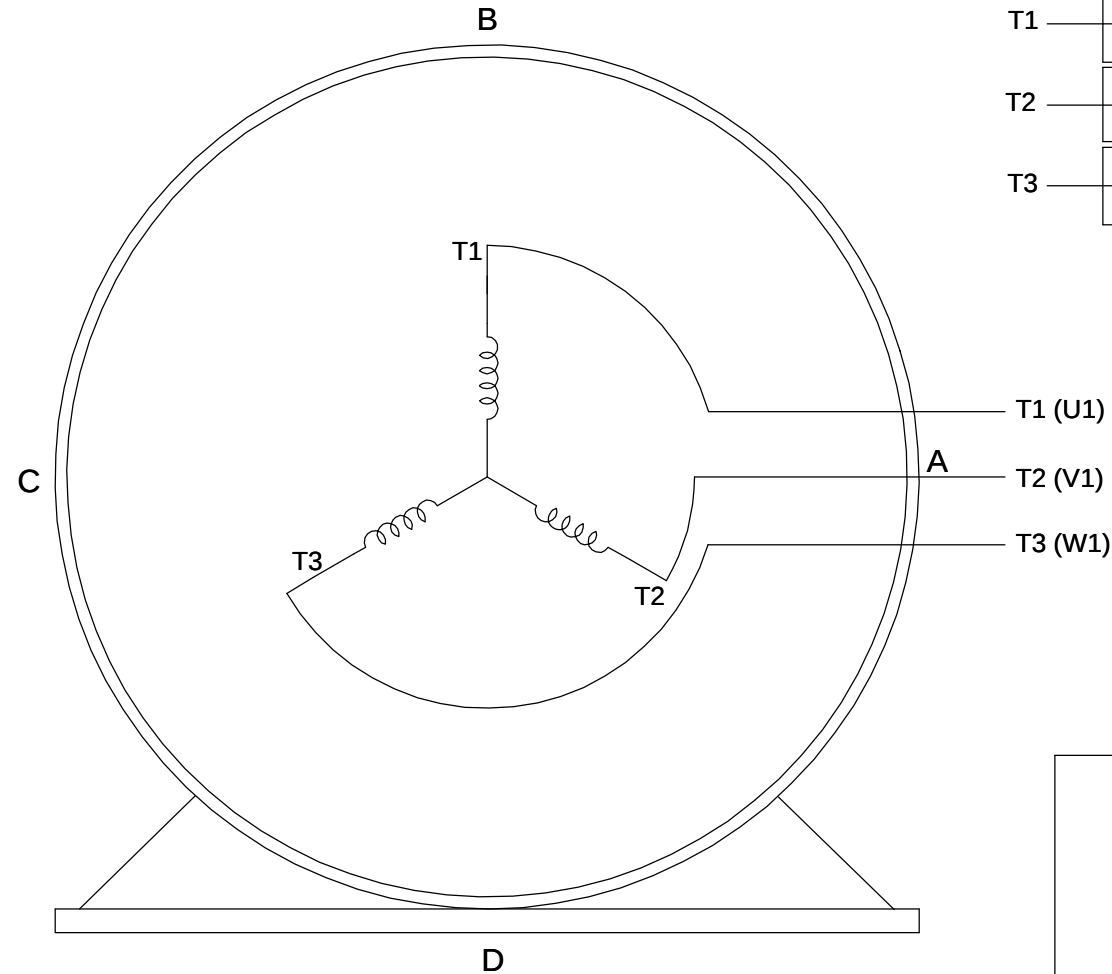
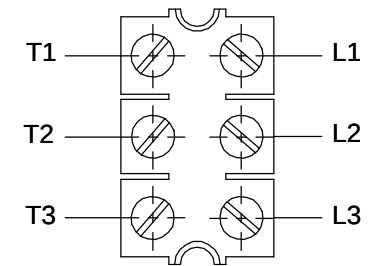
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Aluminum	Shaft Type	T
Overall Length	23.51 in	Frame Length	12.00 in
Shaft Diameter	1.625 in	Shaft Extension	4.38 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS321100-1200	Connection Diagram	A-EE7300



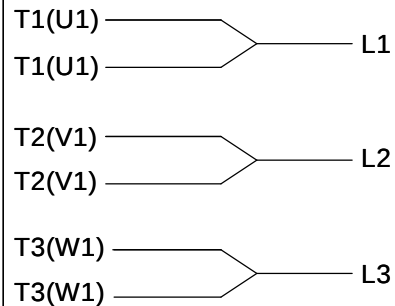
THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

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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P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:		CUSTOMER P.O. #:	
ORDER #:		REFERENCE MODEL #:	254TTFL16038
CONN. DIAGRAM:	A-EE7300	CAT #:	U646B
OUTLINE:	B-SS321100-1200	CUSTOMER PART #:	
WINDING:	K2564165	MOUNTING:	F1/F2 CAPABLE
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
15	11.2	1800	1775	254T	TEFC	TFY	G	B
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB
3	60	200	43.5	ACROSS THE LINE	CONT	F	1.15	40
F.L. EFF		92.4	3/4 LD EFF	92.4	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF		81.0	3/4 LD PF	78.0	1/2 LD PF	68.0	91.7	SQ CAGE IND RUN
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)
44.4 LB-FT		253		85.0 LB-FT		125 LB-FT		282%
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME
65 dBA		74 dBA		2.40 LB-FT²		110 LB-FT²		25 SEC.
								STARTS/HOUR
								2
								MOTOR WGT
								325 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE		ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD		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)		ALUMINUM	
6309	6208								
THERMOSTATS		PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS		
NONE		NOT	NONE	NONE	NONE	FALSE	NA		
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT		
0.071		0.045	0.255	0.336	6.145	0.150	ODE		

PREPARED BY: FAREEDA DUDEKULA	
DATE: 9/11/2018	
FORM: 3531 REV 4 2/27/06	UL: V/INS, CONST UL REC

Data Sheet

Date: 9/11/2018

254TTF16038

Customer:

9/11/2018



Submittal

Submitted by:

FAREEDA DUDEKULA

Data @ 200 V

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Motor Load Data

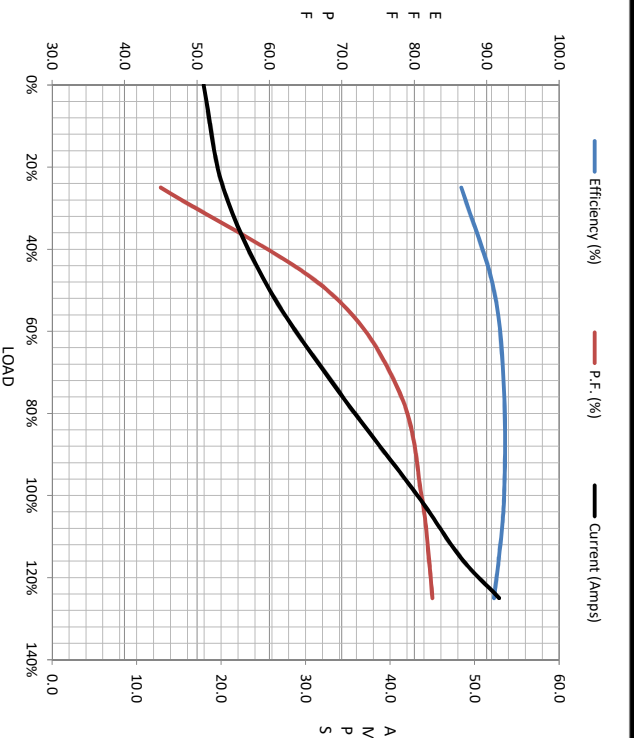
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	17.9	20.2	25.8	34.0	43.2	48.3	52.9	253
Torque (l-b)	0.00	11.0	22.0	33.5	44.4	50.5	56.0	85.0
RPM	1800	1792	1788	1780	1775	1,770	1765	0
Efficiency (%)	11.5	86.5	91.0	92.4	92.4	91.7	91.0	40.0
P.F. (%)		45.0	68.0	78.0	81.0	82.0	82.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1775	1800
Current (amps)	253	219	159	43.2	17.9
Torque (ft-lb)	85.0	75.0	125	44.4	0.00

Information Block

HP	15.0			
Sync. RPM	1800			
Frame	254182TTF08080			
Enclosure	TEFC			
Construction	TFF			
Voltage	200 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	2.40 Lb-Ft²			
RetWdg	K2564165 R26			
Sound Pressure @ 1M	65 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS321100-1200			
Comm. Diag	A-EET300			
Additional Specifications:				
0				
0				
EQUI CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0710	0.0450	0.2550	0.3360	6.1450



Speed -Torque Curve

