PRODUCT INFORMATION PACKET

Model No: 254TTFNA16838
Catalog No: E620-P
15,1800,TEFC,254T,3/60/460
Severe Duty

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Nameplate Specifications

Output HP	**15 Hp**	Output KW	**11.2 kW**
Frequency	**60 Hz**	Voltage	**460 V**
Current	**18.8 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	**TEFC**	Overload Protector	**NOT**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6210**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**54**		

Technical Specifications

Electrical Type	**SQ CAGE INV RATED**	Starting Method	**LINE OR INVERTER**
Poles	**4**	Rotation	**REV**
Mounting	**RIGID**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**CAST IRON**	Shaft Type	**T**
Overall Length	**23.65 in**	Frame Length	**10.5 in**
Shaft Diameter	**1.63 in**	Shaft Extension	**4.2 in**
Assembly/Box Mounting	**F1/F2 CAPABLE**		
Outline Drawing	**SS203002-1050**	Connection Diagram	**EE7300**

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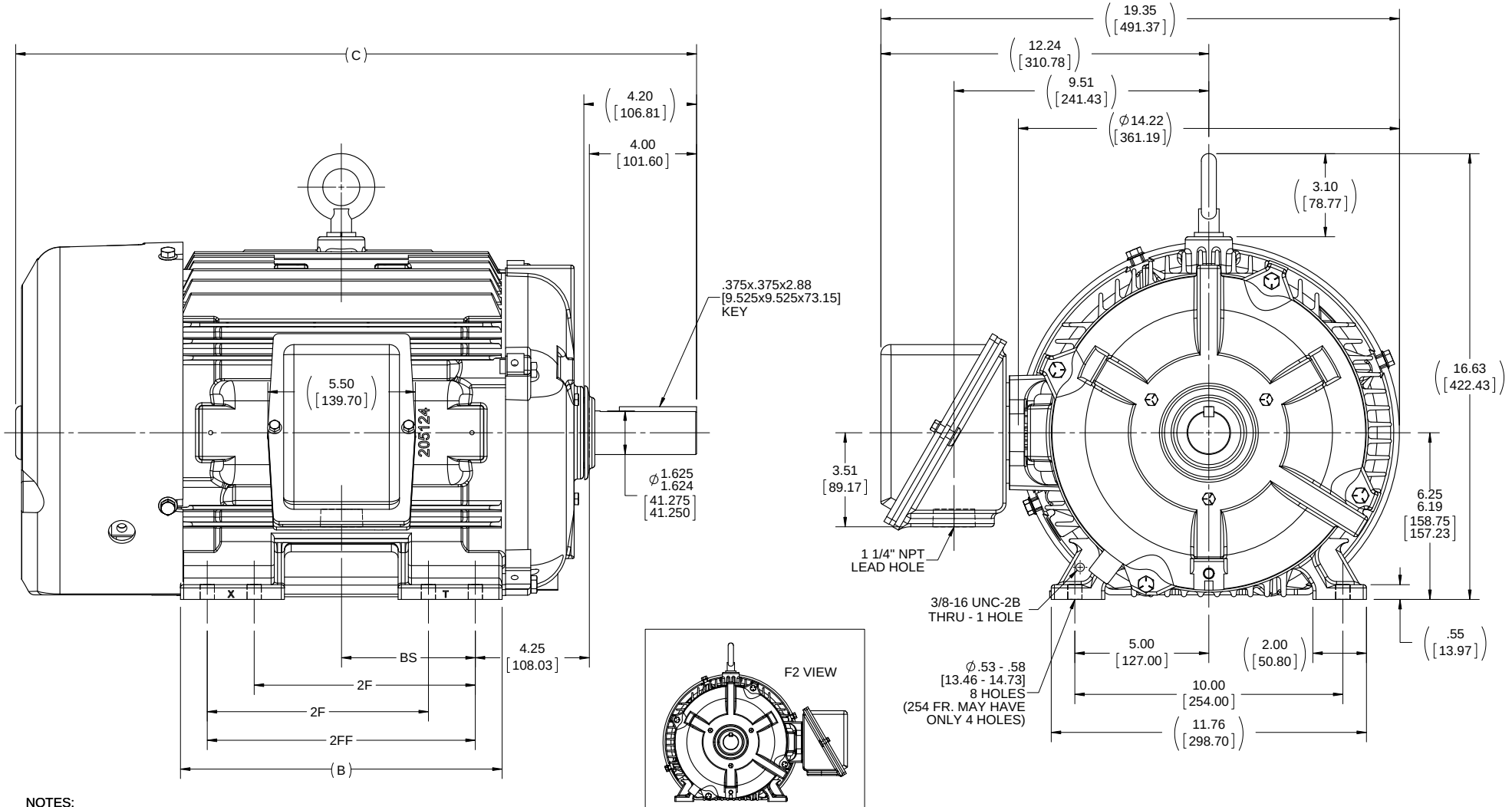

NOTES:
1. CONDUIT BOX CAN BE ROTATED ON ITS AXIS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1050	254T	23.65 [600.71]	10.25 [260.35]	- - -	8.25 [209.55]	4.25 [107.95]
1225	254/256T	25.40 [645.16]	12.00 [304.80]	8.25 [209.55]	10.00 [254.00	5.00 [127.00]
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION: E	REVISION BY: M GERTSCHEN	DATE: 11-17-2016
ECO: ECO-0112972	APPROVED BY: T VUE	DATE: 11-17-2016

ECO DESCRIPTION: UPDATED TO CURRENT STANDARDS

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: TVUE	
DATE: 12-18-2013	
APPROVED BY: TBROWN	
DATE: 12-18-2013	
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
250T FR. - TEFC - BB - STD.

MATERIAL | PROCESS/FINISH

SIZE: B | DRAWING NUMBER: SS203002 | SHEET: 1 OF 1

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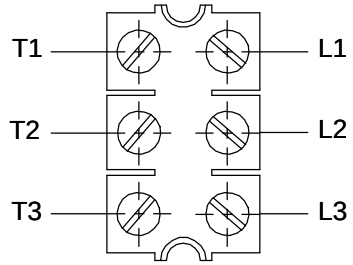
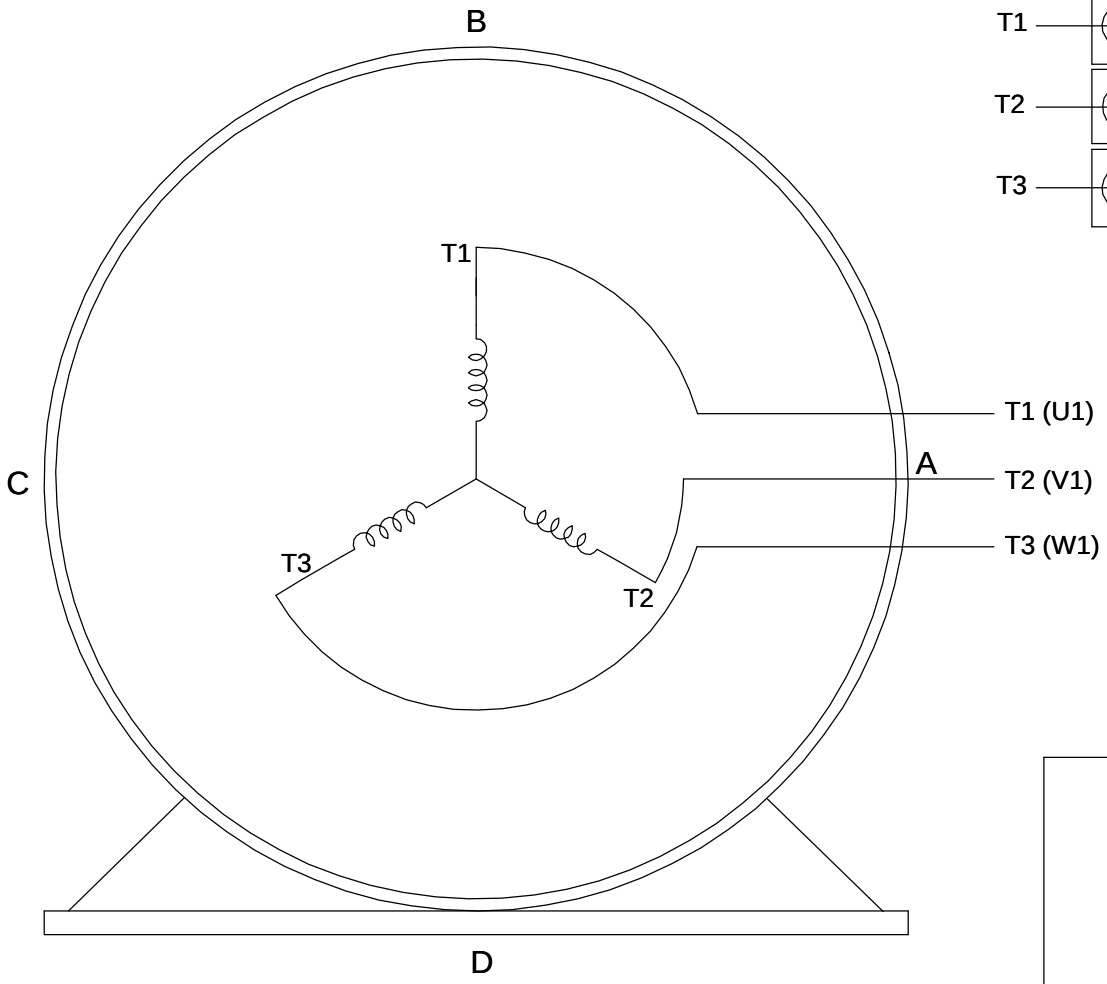
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

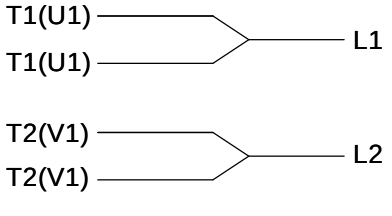
TERMINAL BLOCK WHEN SPECIFIED





VIEW OF TERMINAL END

IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1	WHITE
L2	RED
L3	BLACK

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™ Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

CERTIFICATION DATA SHEET

Model#:	254TTFNA16838 AA	**WINDING#:**	K2564165 NONE 2
CONN. DIAGRAM:	EE7300	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	SS203002-1050		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15	11.2	1800	1775	254T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	18.8	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 92.4	**3/4 LOAD EFF: 92.4**	**1/2 LOAD EFF: 91**	**GTD. EFF**	**ELEC. TYPE**	**NO LOAD AMPS**
FULL LOAD PF: 81	**3/4 LOAD PF: 78**	**1/2 LOAD PF: 68**	91.7	SQ CAGE INV RATED	7.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.4 LB-FT	110	85 LB-FT 191	125 LB-FT 282	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	2.4 LB-FT^2	110 LB-FT^2	25 SEC.	2	325 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6210	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/23/2017 04:22:22 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 20-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

254TTFNA16838

Submittal

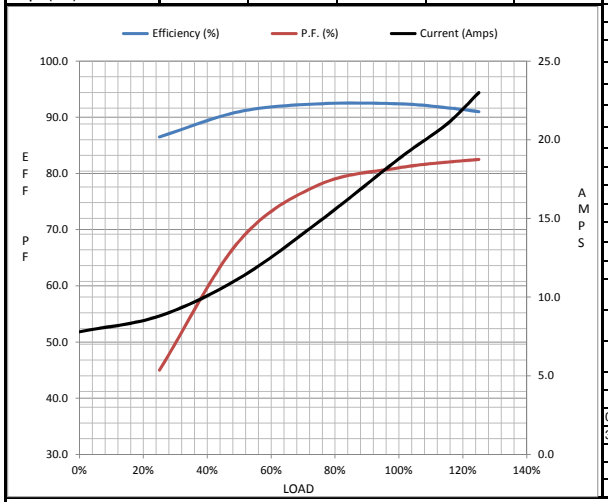
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.8	8.8	11.2	14.8	18.8	21.0	23.0	110	
Torque (ft-lb)	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 (%)		86.5	91.0	92.4	92.4	91.7	91.0		
P.F. (%)	11.5	45.0	68.0	78.0	81.0	82.0	82.5	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1775	1800
Current (Amps)	110	95.0	69.0	18.8	7.8
Torque (ft-lb)	85.0	75.0	125	44.4	0.00



Information Block

HP	15.0
Sync. RPM	1800
Frame	254
Enclosure	TEFC
Construction	TFN
Voltage	460 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
Ref Wdg	K2564165 NONE
Sound Pressure @ 1M	65 dBA
VFD Rating	CONSTANT 20:1
Outline Dwg	SS203002-1050
Conn. Diag	EE7300

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3760	0.2380	1.3510	1.7770	32.5080