

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 324TTTS18601
Catalog No: S523
20,900,TEAO,324T,3/60/460
Other Purpose



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REGAL[®]



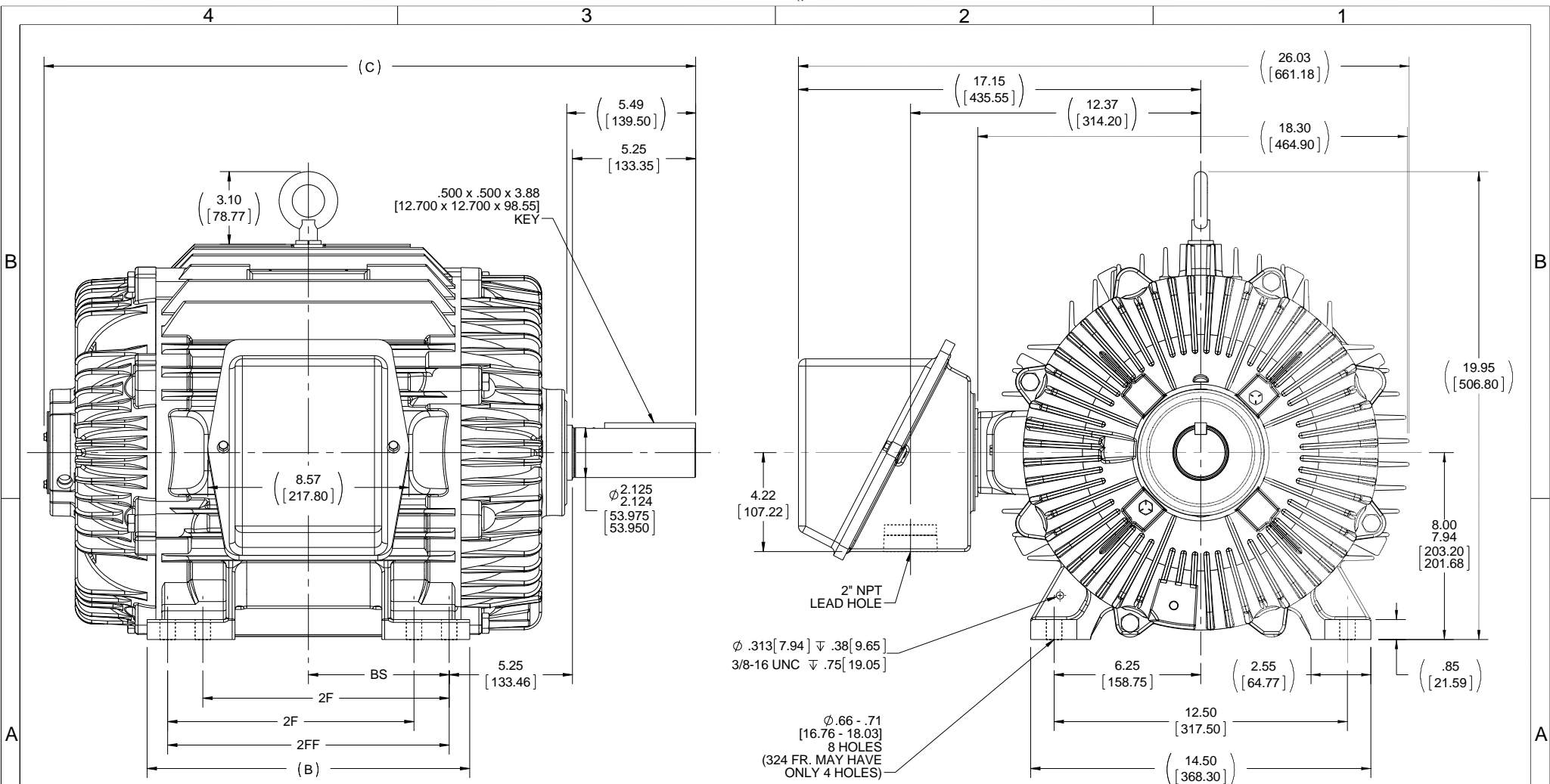
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	460 V
Current	29.5 A	Speed	882 rpm
Service Factor	1.15	Phase	3
Efficiency	90.2 %	Duty	Continuous
Insulation Class	H	Design Code	B
KVA Code	F	Frame	324T
Enclosure	Totally Enclosed Air Over	Overload Protector	No
Ambient Temperature	90 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6311	UL	No
CSA	Y	CE	N
IP Code	54		

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 / Heat Stabilized	Opp Drive End Bearing	Ball / Heat Stabilized
Frame Material	Cast Iron	Shaft Type	T
Overall Length	27.5 in	Frame Length	13.00 in
Shaft Diameter	2.125 in	Shaft Extension	5.5 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	B-SS301011-1300	Connection Diagram	A-EE7300T

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- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
1150	324T	13.00 [330.20]	26.27 [667.26]	---	10.50 [266.70]	5.25 [133.35]
1300	324T/ 326T	13.75 [349.25]	27.77 [705.36]	10.50 [266.70]	12.00 [304.80]	6.00 [152.40]

DRAWING REVISION F	REVISION BY J. OTTO	DATE 06-27-2016
ECO ECO-0102388	APPROVED BY T. VUE	DATE 06-28-2016
ECO DESCRIPTION NMR-0106886, MU123088		
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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 [0.076/.381] X 45° CORNER FILLETS: R.02 [51]			
MACHINED SURFACES: 200 INCH/mm 5.1			
mm SHOWN IN [BRACKETS]			

DRAWN BY CAV
DATE 08-29-2000
APPROVED BY DD
DATE 08-30-2000
REFERENCE
THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
320T FR. - TEAO - TENV - 14.25 LAM.

MATERIAL
PROCESS/FINISH

SIZE
B

DRAWING NUMBER
SS301011

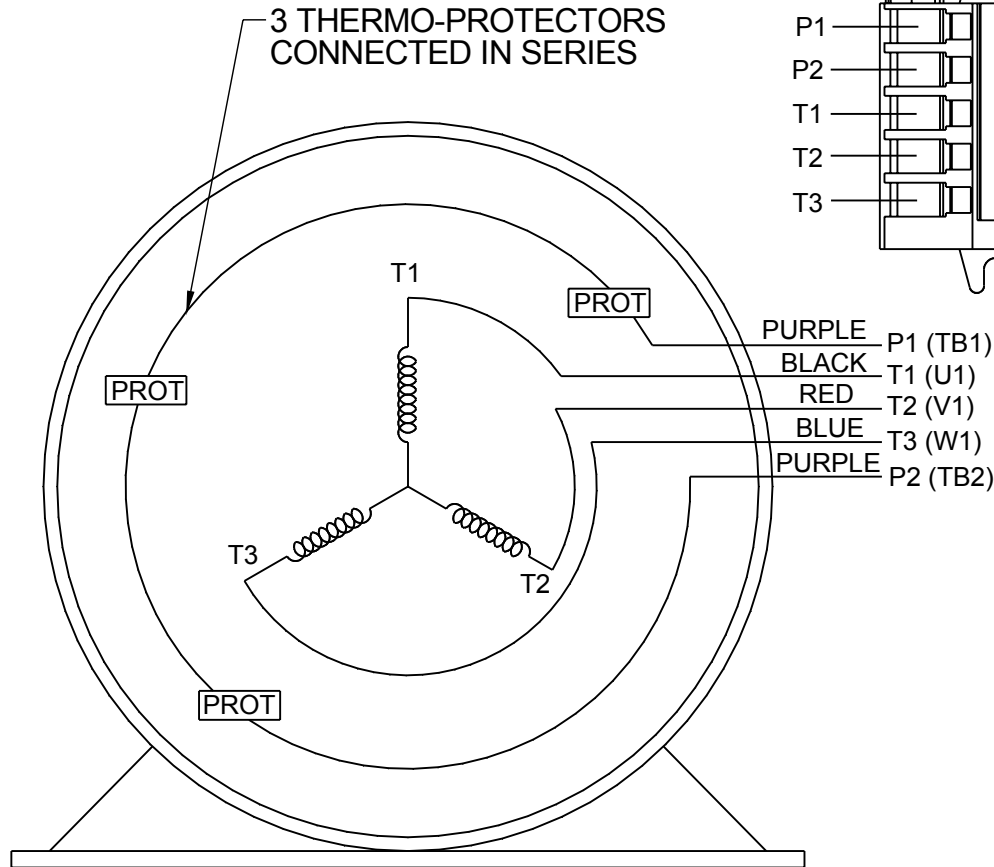
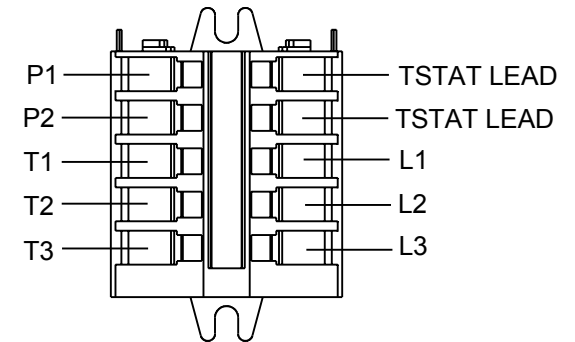
SHEET
1 OF 1

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

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS**

**NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1**

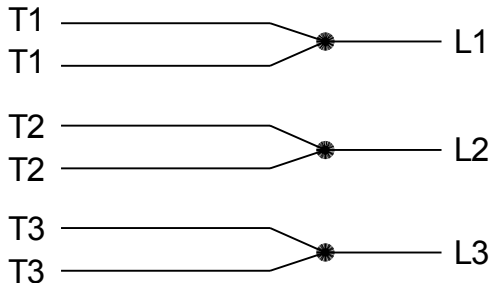
TERMINAL BLOCK WHEN SPECIFIED



PURPLE P1 (TB1)
BLACK T1 (U1)
RED T2 (V1)
BLUE T3 (W1)
PURPLE P2 (TB2)

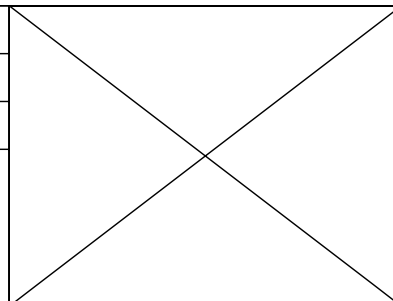
T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

**IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S**



A-9806 DECAL

DRAWING REVISION AB	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T.VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC-60034-8		
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DRAWN BY LZ	Regal Beloit America, Inc.	
DATE 01-04-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR	
DATE 01-20-1994	MATERIAL	
REFERENCE	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7300T
		SHEET 1 OF 1

Data Sheet

324TTS18601



Submittal
Data @ 460 V

Date: 6/20/2017

Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

Motor Load Data

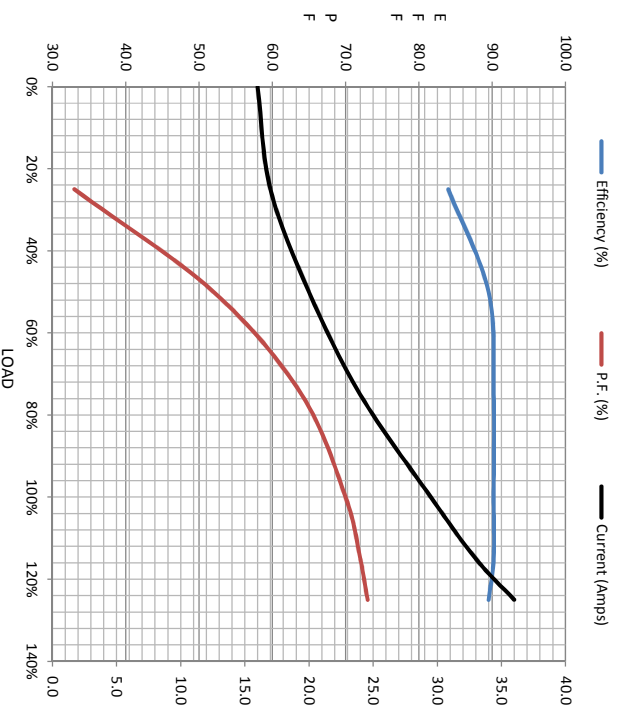
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	16.0	17.0	20.0	24.0	29.5	33.0	36.0	135
Torque (ft-lb)	0.00	29.5	59.0	89.0	119	138	150	160
RPM	900	895	892	888	882	880	875	0
Efficiency (%)		84.0	89.5	90.2	90.2	89.5	89.5	
P.F. (%)	5.0	33.0	52.0	64.0	70.0	72.0	73.0	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	450	825	882	900
Current (Amps)	135	115	80.0	29.5	16.0
Torque (ft-lb)	160	140	245	119	0.00

Information Block

HP	20.0
Sync. RPM	900
Frame	326
Enclosure	TEAO
Construction	TTN
Voltage	460 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	0 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk ^e	9.0 Lb-Fe
Rel Wdg	324824 NONE
Sound Pressure @ 1M	999 dBA
VFD Rating	VARIABLE 20:1
Outline Dwg	B-SS301011-1300
Conn. Diag	A-EE7300T
Additional Specifications:	
0	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.2490	0.1850
X1	X2
1.6330	1.3770
Xm	Xm
	15.7620



Speed -Torque Curve

