

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 324THFS9080
Catalog No: W563
25,1200,TEFC,324T,3/60/575
Severe Duty



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REGAL[®]



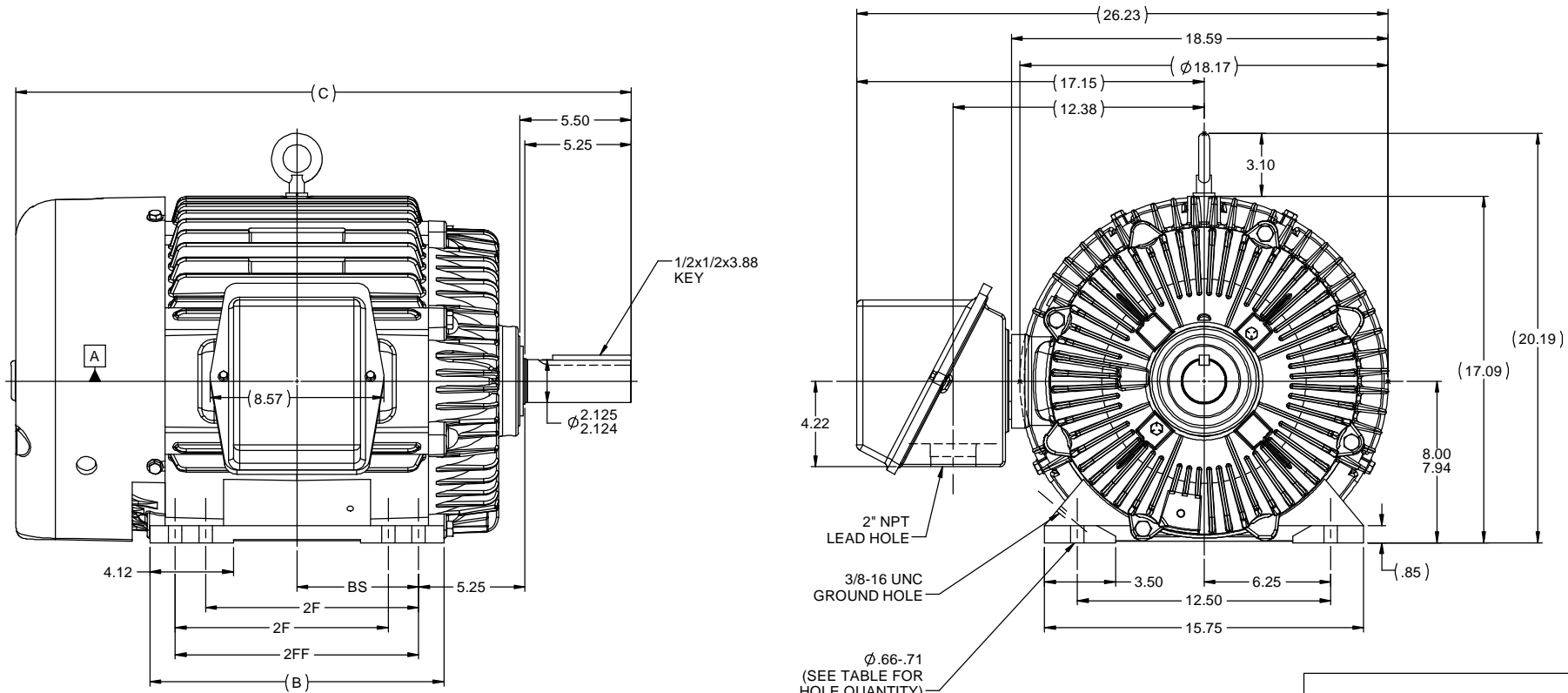
Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	575 V
Current	26.0 A	Speed	1182 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	324T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6311	UL	Recognized
CSA	Y	CE	Y
IP Code	56		

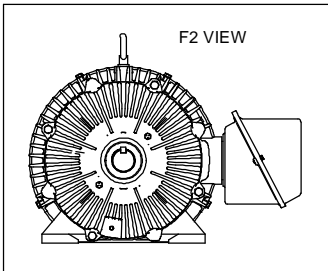
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	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	28.87 in	Frame Length	11.50 in
Shaft Diameter	2.125 in	Shaft Extension	5.5 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	B-SS300575-1150	Connection Diagram	A-EE7300

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- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
 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.



DASH	FRAME	C	B	BS	2F	2FF	--	MTG HOLES
1150	324T	28.87	13.00	5.25	--	10.50		4
1300	324/6T	30.37	14.50	6.00	10.50	12.00		8
1450	326T	31.87	15.00	6.75	12.00	13.00		8

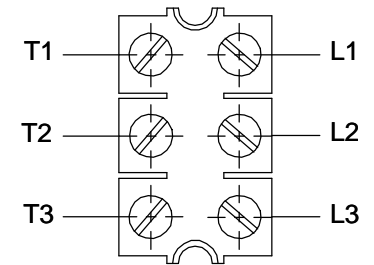
8	REDRAWN IN CURRENT CAD SYSTEM (MU106311)	REP 02-02-2012	BW	TOLERANCES UNLESS SPECIFIED		DRAWN	MH 01-23-1998
7	ADDED F-2 VIEW (MU106696)	REP 12-27-2011	SJW	DEC		INCHES	CHK
6	REVISED DASH 1450 (CN 33720)	RJW 12-21-2004	ML	X	±.1	APPR	DD 01-26-1998
5	ADDED DASH -1450 TO TABLE	HLB 10-04-2004	LC	XX	±.03	TITLE	OUTLINE
4	ADDED FOOT HOLE QTY & MTG. TO TABLE (CN37323)	TAT 12-09-2003	ML	XXX	±.005		SCALE 3:16
3	UPDATED C'BOX GEOMETRY (CN 28424)	DRS 01-06-2000	-	XXXX	±.0005	MATL	REF
NO	REVISION	BY & DATE	CHK	LANG	±1/2"	FINISH	FMF
						PREV	PAGE OF
						SIZE	DRAWING NO
						B	SS300575
							REV
							8



**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 Beloit America, Inc.	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300
SHEET 1 OF 1	

CERTIFICATION DATA SHEET

Model#: 324THFS9080 AA **WINDING#:** 324679 NONE 2
CONN. DIAGRAM: A-EE7300 **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS300575-1150

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25	18.7	1200	1182	324T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	26	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78	3/4 LOAD PF: 73	1/2 LOAD PF: 63	92.4	SQ CAGE INV RATED	11.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
112 LB-FT	145.6	175 LB-FT 156	300 LB-FT 268	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	8.5 LB-FT^2	425 LB-FT^2	20 SEC.	2	650 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	DIVISION 2 T2B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6311						

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: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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DATE: 06/21/2017 03:28:46 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



324THFS9080

Submittal

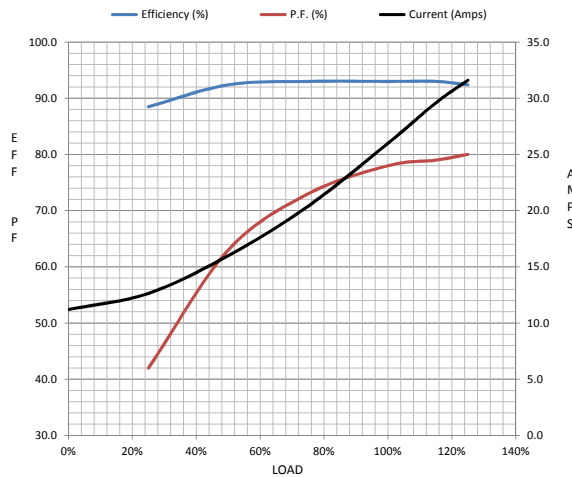
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	11.2	12.6	16.0	20.4	26.0	29.6	31.6	146
Torque (ft-lb)	0.00	27.5	55.0	83.5	112	128	140	175
RPM	1200	1195	1190	1188	1182	1,178	1175	0
Efficiency (%)		88.5	92.4	93.0	93.0	93.0	92.4	
P.F. (%)	4.5	42.0	63.0	73.0	78.0	79.0	80.0	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1182	1200
Current (Amps)	146	134	100	26.0	11.2
Torque (ft-lb)	175	190	300	112	0.00



Information Block				
HP	25.0			
Sync. RPM	1200			
Frame	324			
Enclosure	TEFC			
Construction	TFN			
Voltage	575 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	8.5 Lb-Ft²			
Ref Wdg	324679 NONE			
Sound Pressure @ 1M	56 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS300575-1150			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2750	0.2130	1.6350	2.0390	28.3040

Speed -Torque Curve

